

ALDE Compact 3010	98
ALDE Compact 3010 Control Panel	103
Dometic absorption refrigerators	111
Cooker 3 burner and hotplate	132
Microwave oven	137
Thetford C260 cassette toilet	140
Caravans with external BBQ point	147
External shower point	148
Caravans with TV inlet in battery box	149
CD/MP3 tuner	149
Status 550 directional TV and FM radio antenna	150
Bedding	151
Softrollo Blinds (Seitz)	152
Doorscreen	153
Roof lights	153
Exterior Door Key	153
Windows	153
Mini Heki rooflight	154
Midi Heki rooflight	156
Heko-2 roof light (Bessacarr Cameo models)	157
Heki 4 remote control (coded)	157
Dometic Seitz	158
Care of laminate tops, tables, furniture and doors	160
Doors	160
Tables	160
Table storage	160
Shower use	161
Fixing of awnings	161
Paint colour reference	161
Front locker and sunroof	161
Bonded Roof	161
Step on hitch cover	162
Cycle racks	162
Caravan motor mover	162
Omni-vent	163
Rear view camera	165
Door operation	166
Service door operation	168

ALDE HEATING OPERATING INSTRUCTIONS

The instructions covering fitted equipment to your caravan were correct at the time of going to print. Owners handbooks are updated annually and we take great care to try and ensure their accuracy. However, the Swift Group Limited cannot accept responsibility for any changes that may be made in specification or operating instructions to the equipment described in this section after the time of going to press.

Every care is taken to ensure that the information provided in this handbook is correct and easy to understand.

Separate manufacturers' leaflets on many of the components are also included in the Owner's Pack provided with this caravan and we recommend that you compare the instructions in the handbook with the component manufacturers literature, to ensure the information provided is as accurate as possible.

If you are in any doubt as to how to operate the equipment in your caravan, please contact the component manufacturer's service department on the telephone number shown on their component leaflet. If you remain in any doubt, please contact your supplying dealer.

Notice: In the interest of safety, replacement parts for an appliance shall conform to the appliance manufacturer's specifications and should be fitted by them or their authorised agents.

Alde Compact 3010



Please read these instructions carefully before using the boiler.

These instructions are approved for The Alde Compact 3010 boiler fitted in caravans, motor caravans and buildings in accordance with CE no. EMC e5 02 0138, 845 BP-0003.

Installation and repairs may only be carried out by a professional. National regulations must be adhered to.

Boiler design

The boiler consists of three eccentrically-fitted cylinders (heat exchanger, water jacket for the heating system and, outermost, water jacket for hot water). The two outer pipes, and their ends and connections, are made of stainless steel, while the heat exchanger is made of aluminium.

The heat exchanger is divided into two semi-circles. The burner is located in the upper half, being the combustion chamber, and the combustion gases are expelled through the lower half. The burner unit is fitted on the end of the heat exchanger. It consists of a combustion fan, burner, solenoid valve and intake/exhaust connections. Two heating cartridges are fitted to the water jacket of the heating system. Maximum output is 2 or 3 kW, depending on model.

Description of functions

Using LPG

When LPG operation is selected on the control panel, the combustion fan starts. When the fan speed is correct, it signals the circuit board that the boiler can be lit. The circuit board sends ignition sparks to the spark plug at the same time as it sends electricity to the solenoid valve, which opens to allow gas in. The burner ignites, and a sensor transmits a signal back to the circuit board that the boiler is lit, and the ignition spark stops. The burner keeps burning until the boiler thermostat or the room thermostat reaches the set temperature reading.

Should the boiler go out for any reason, the sensor is activated and a new attempt is made to start the boiler (in about 10 seconds).

Using the heating cartridge

Electrical operation is selected on the control panel, the 12-volt relays on the circuit board trip, allowing the 230 volt supply to reach the electrical elements.

The heating cartridge is controlled in the same way as the gas boiler.

Warm water

When only warm water is required, for example during the summer, no settings need to be made, the boiler will look after this function automatically.

The pump will only start when the temperature in the vehicle is lower than the set temperature (see item 4, Control Panel). If the vehicle temperature is higher, the pump will not start.

Important information

- The boiler must not be started if there is no glycol in the system.
- The LPG boiler and heating cartridge may be operated in parallel.
- The heating system may be heated up without the warm water heater being filled with fresh water.
- Always switch off the main isolator for the boiler when the vehicle is not being used.
- Always drain the warm water heater of fresh water if there is a risk of frost.
- The LPG boiler must not be operated when refuelling the vehicle.
- When washing the vehicle, take care not to get water in the venting.

⚠ WARNING: Care should be taken to ensure adequate ventilation of the flue at all times. It is inadvisable to inhale exhaust fumes.

The Domestic hot water heater

The boiler is fitted with a built-in warm water heater with a volume of approx. 8.5-litres fresh water. The warm water heater can produce around 12 litres of 40°C water per half-hour (at a cold water temperature of 10°C). If the heating cartridges are used instead of gas for heating the boiler, the capacity is slightly reduced. Always rinse out the heater before it is used, particularly if it has not been in operation for some time.

Note: The hot water is not intended for drinking or cooking.

When the heater is in continuous use, it should be emptied approx. once a month, to ensure that a new air cushion is formed in the heater.

The air cushion is essential for absorbing pressure surges in the heater.

Note: The warm water heater should always be drained of fresh water when there is a risk of frost and when the caravan is not in use.

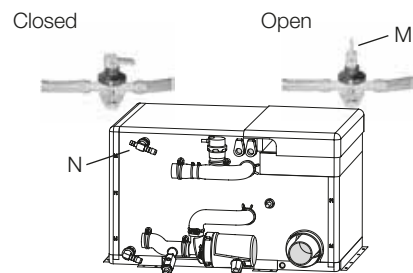
The warranty does not cover frost damage.

Draining the heater using the combined safety/drain valve:

1. Switch off the freshwater pump
2. Open all water taps.
3. Then open the safety/drain valve by raising the yellow lever (M) to a vertical position.
4. The heater will now drain directly below the vehicle through the safety/drain valve hose. Check that all the water is emptied out (about 7-10 litres). Leave the valve in the open position until the next time the heater is used.

Note: Check that the automatic check valve (N) is open and is allowing air to enter the heater when it is being drained, and that the hose (O) is not blocked.

ALDE HEATING OPERATING INSTRUCTIONS

**The heating cartridges**

All Compact 3010s are fitted with two 230V heating cartridges with a maximum output of either 2100 or 3150W. Select the heating cartridge output on the control panel.

Always check that the input supply of the vehicle has the correct amperage in relation to the selected output.

Note these ratings are for the boiler only.

1050W requires a 6 amp fuse/supply.

2100W requires a 10 amp fuse/supply.

3150W requires a 16 amp fuse/supply.

The circulation pump

A circulation pump is required to circulate the heated glycol fluid around the heating circuit. A 12V circulation pump is mounted to the appliance.

The room thermostat on the control panel controls the circulation pump, i.e. switches it on or off according to the amount of heat required.

System temperature

The boiler is set to a system temperature of 80°C, i.e. the temperature of the glycol fluid as it circulates in the heating system.

Air circulation

In order to achieve the best possible result from the principle of convected heat, it is important to allow air to circulate freely under bunks, and behind backrests and wall-mounted cabinets.

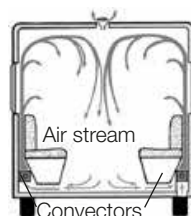
If the vehicle has a fitted carpet, ensure that the carpet does not obstruct the air supply to the radiators.

It is just as important that cushions or blankets do not interrupt the flow of air behind backrests and wall cabinets.

Note: During the first weeks of ownership customers may notice a drop in the glycol level and/or blocked radiators. This is normal as the system settles.

Maintaining the heating system**Winter camping**

While camping during the winter, ensure that the flue is kept clear of snow and ice, since the inlet air to the LPG boiler enters through the flue. Do not start the LPG boiler until the flue is completely free of snow. A flue extension (part no. 3000 320) for fitting on the roof is recommended for winter camping.

**The heating system**

Regularly check the heating system's fluid level in the expansion tank. The level should be about 1cm above the minimum indicator in a cold tank. The heating system should be filled with a mixture of water and glycol.

For preference, use high quality ready mixed glycol (with inhibitor) intended for use in aluminium heating systems.

If using concentrated glycol, the mixture should consist of 50% water and 50% glycol. If the heating system will be exposed to temperatures below -25°C, the glycol content must be increased, but not to more than 50%. Any vessels used for the liquid must be spotlessly clean, and the pipes in the heating system must be free of contamination. This will

prevent the growth of bacteria in the system.

The glycol mixture should be changed every second year, since its ability to protect against corrosion, for example, will deteriorate. The glycol content should be checked before topping up with new liquid. This will ensure that the concentration of glycol in the mixture is not too high.

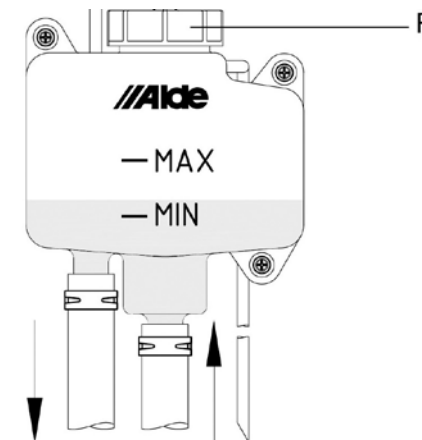
If the fluid level in the expansion tank falls for reasons other than evaporation, please check all joints, drain cocks and bleeder screws to ensure that they are not leaking. If the glycol-water mixture leaks out, rinse with water and wipe up.

Never allow the heating system to stand empty of glycol.

Filling the system with Ethylene Glycol fluid

Note: Any vessels used to carry the fluid must be spotlessly clean and the pipes in the system must be free of contamination. This will prevent the growth of bacteria in the system. Do not use water from the caravan's fresh water tank; residual tank cleaning chemicals can cause corrosion.

The system is filled through the expansion tank, either manually or using the Alde filling pump which both tops up and bleeds the system. For manual filling, first remove the Grey plastic collar which sits at the top of the expansion tank cover, by squeezing each side to release it from the plastic below. Once this is removed unfasten the nut (R) and remove the nut, and rubber cap below, from the top of the tank. Slowly pour the glycol mixture into the tank. Fill to half way between Min – Max when cold. Bleed the system. Top up with more liquid if the level has fallen after bleeding. Bleed a newly filled system regularly during the first days the heating system is in operation.



ALDE HEATING OPERATING INSTRUCTIONS

Types of glycol

Various types of antifreeze (as used in car radiators) are available from service stations, car accessory shops and on line retailers and these types of antifreeze can be used to top up or replace the heating system fluid in the Alde heating system.

Frost and corrosion damage are not covered under warranty, so it is important that the type purchased contains corrosion inhibitors suitable for use with aluminium systems. Always check the label, ask the retailer for advice, or check with your supplying dealer if unsure. Please note the corrosion inhibitor will have a limited life, and after it expires, the system will have no corrosion protection.

The fluid will usually be named as Ethylene glycol, but may also be described as monoethylene glycol, MEG, ethanediol, or G12++. There is no industry standard for the colour of the antifreeze, but as a general guideline it indicates the type of corrosion inhibitor:

Blue, Green - Silicate inhibitor, usually offering 2-year corrosion protection

Red, Orange - OAT inhibitor, usually offering 5-year corrosion protection

Purple, Magenta - G12++ Silicated OAT inhibitor, usually offering 5 year corrosion protection

It is important that antifreeze containing Silicate inhibitor (Blue or Green) is not mixed with antifreeze containing OAT inhibitor (Red or Orange). To guarantee compatibility, there are two options:

1. Match the colour, taking care to also check the label on the antifreeze bottle, i.e. if the system is filled with blue silicate-containing antifreeze, top up with blue silicate-containing antifreeze.
2. Use G12++ antifreeze which is compatible with any of the other types of inhibitor described.

Bleeding the system

Depending on the routing of the heating circuit pipes, air pockets may form when the system is filled with glycol fluid.

A sign that there is air trapped in the system is that the heat released into the pipes only extends a metre or so from the boiler even though the circulation pump is operating.

Bleeding:

When bleeding the heating circuit pipes, please be aware that parts of the system, including the appliance, pipe work and fluid within, may be at a high temperature – please allow the system to cool before bleeding, to avoid the risk of burns



The appliance mounted circulation pump has a speed control dial, as shown in the above image. This can, for a short time only (max 15 minutes) be set at its maximum speed to assist with removing trapped air. This works by moving the fluid at an increased speed, carrying trapped air through the pipe work until it can escape from the fluid into the header tank. Before increasing the speed setting, make a note of the original setting (Typically 2 or 3), and after 15 minutes return the speed control to that number. Leaving the pump at its maximum speed setting will eventually cause damage to the pump, which would not be covered by your caravan warranty.

If use of the high speed pump setting does not resolve the problem, a bleeder screw will be fitted to each high point in the heating system pipe work. With the circulation pump switched off, open each bleeder screw and leave it open until it starts to discharge water – as with bleeding a domestic radiator, please

have a cloth or similar positioned near to the bleed valve to capture any escaping liquid, and please be aware that any escaping liquid may be at high temperature.

After bleeding by either method, check that the pipes and radiators around the vehicle are heating up. Then top up the expansion tank as required.

If there are still issues, try the following:

Single-axe caravan:

Stop the circulation pump. Lower the front of the caravan as far as possible. Leave it in this position for a few minutes to allow the air to travel upwards in the system. Open the bleeder screw at the highest point. Leave it open until it discharges glycol fluid. Raise the front of the caravan as far as possible and repeat the procedure in this position.

Then position the caravan horizontally and start the circulation pump. Check that the pipes and radiators around the vehicle are heating up.

Twin-axe caravan:

The easiest way to bleed the heating system is to place the vehicle on a sloping surface or to raise one end of the vehicle using a jack. Bleed the system as described above.

Fault finding

The boiler does not start

1. No LPG? Incorrect type for conditions?
2. Is the main tap fully open?
3. If the boiler has not been operated for some time, or if the gas cylinder has been changed, it may take longer than normal to light the boiler.
4. Check that the boiler is connected to the electricity supply (> 11V).
5. Check that the fuse (T) for the boiler is intact.
6. Check whether the electric connections on the boiler are securely in position.

If none of the above helps, contact a service workshop.

The heating cartridge is not working

1. Check that there is an electricity supply (230V ~) to the heating cartridge.
2. Check that the relays fitted to the boiler come on (a slight click can be heard from the relays when the heating cartridge is switched on at the control panel).

If none of the above helps, contact a service workshop.

Operating instructions control panel 3010 613

Control panel specifications may vary. If in doubt please cross reference instructions supplied by Alde.

Please read these instructions carefully before using the boiler. For Operating and Installation Instructions of boiler, please see separate instruction. These instructions are for the Alde Compact 3010 boiler fitted in vehicles, boats and buildings in accordance with CE no. 0845 BP0003, installation in vehicles e500 00005 and EMC e5 03 261. Installation and repairs may only be carried out by a professional. National regulations must be adhered to.

1. Starting the boiler

1. The control panel and the boiler are switched off.



2. To start the boiler, press the On/Off button and the start-up display is displayed. The boiler starts with the last selected setting.

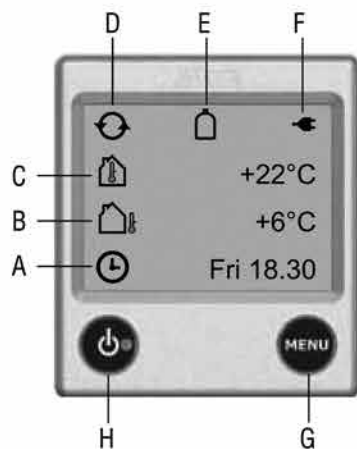
ALDE HEATING OPERATING INSTRUCTIONS



A green LED comes on beside the On-/Off button when the panel/boiler is on.

2. The control panel in standby mode

Note: if "Standby Brightness" is set to Off, the display goes out when it enters standby mode, but lights up if you press the screen. See settings under 9.12.



A. Clock

The clock shows day and time. The clock is set under section 9 point 2.

B. Outdoor temperature

The outdoor temperature is displayed only if an outdoor temperature sensor is fitted.

C. Indoor temperature

The indoor temperature is displayed automatically.

D. Circulation pump

This symbol is displayed when circulation of the central heating is called for.

E. LPG bottle full/empty

This symbol is displayed when the sensor on the cylinder changeover is connected and activated in accordance with section 9 point 8.

F. 230 volts

This symbol is displayed when 230V is connected to the boiler.

G. MENU button

Button for setting menu.

H. On/Off button

Shut down / turn on the boiler

3. From standby mode to setting menu

When on standby, the indoor temperature is displayed, and the outdoor temperature is displayed if an outdoor temperature sensor has been connected. The background lights up when you press the screen or the MENU button. Start the setting menu by pressing the MENU button. The background lights up and those functions which can be set are displayed. The settings are automatically saved after 10 seconds. The control panel reverts to standby automatically after 30 seconds if no buttons are pressed (or if the MENU button in the setting menu is pressed).

1. The control panel in standby.



2. The control panel in setting menu.



Note: if "Standby Brightness" is set to Off, the display goes out when it enters standby mode, but lights up if you press the screen. See settings under 9.12.

4. Set the required temperature

The temperature can be set from +5°C to +30°C in steps of 0.5°C. Warm water is always available (50°C) when the boiler is on and running on LPG and/or electricity. During summer, when only warm water is required, adjust the temperature setting to well below the surrounding temperature so that central heating circulation is not called for.



1. The temperature displayed is the temperature which is set at present (in this case 22.0°C).
2. Raise the temperature by pressing the + button. Lower the temperature by pressing the - button.
3. The settings are ready and the central heating will circulate at the set temperature.

5. Hot water boost

If you need more warm water, you can raise the water temperature temporarily from 50°C to 65°C. After 30 minutes, the boiler reverts to normal operation. While hot water boost is activated, the circulation pump is stopped.



1. Increase the quantity of warm water by pressing the + button. When activated the plus symbol changes colour to green.

2. The settings are ready.

If you wish to revert to the basic warm water settings before 30 minutes have expired.



1. Reset the warm water by pressing the - button.
2. The settings are ready.

6. Heating with electricity

Do as follows to active heating with electricity. The greater the power, the better the heating performance. In choosing between electricity

ALDE HEATING OPERATING INSTRUCTIONS

and gas, electricity is given priority.



1. Start and step between the various power steps (Off, 1kW, 2kW or 3kW) with the + button or – button. The set value is displayed on the screen. When activated the plus symbol changes colour to green. (Certain boilers are equipped with max 2 kW, selecting 3kW is not possible in these cases.)

2. The settings are ready and the boiler is working at set temperature.
3. To switch off the electrical operation, step with the – button to Off.

7. Heating with gas

Do as follows to activate heating with gas. If both electricity and gas are selected, electricity is given priority.



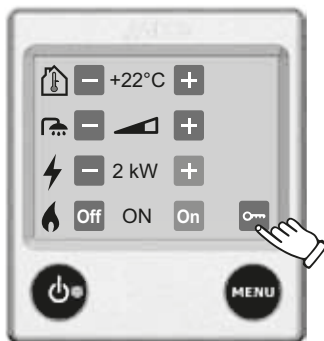
1. Start the gas operation by pressing On. The On symbol is activated and changes colour to green.

2. The settings are ready and the boiler is working at set temperature.
3. In order to switch off gas operation, press Off.

8. Unlocking the tool menu

It is possible to go from the setting menu to the tool menu. Under the tool menu you can access the other functions of the control panel, described in section 9.

1. The control panel in setting menu. Press the unlock symbol.



2. The control panel in unlocking menu. Press on open padlock, then OK or MENU to unlock the tools menu. When activated the symbol changes colour to green.



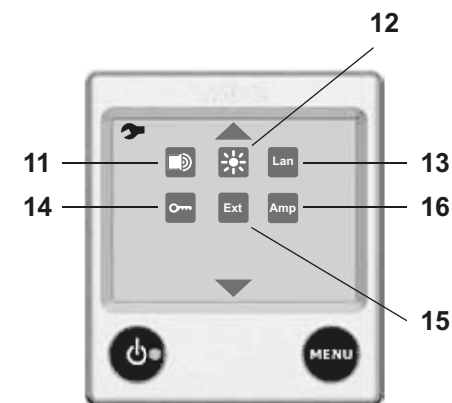
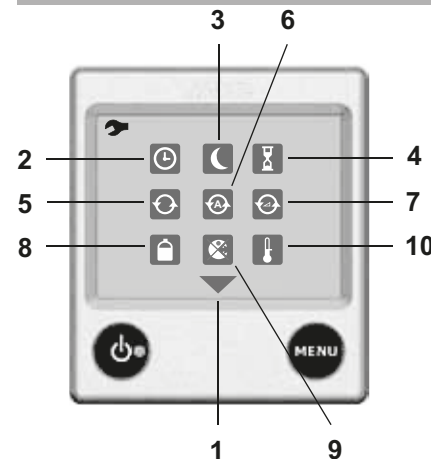
3. The control panel in setting menu with unlocked tool menu. In order to get to the tool menu, press the symbol.



9. The tool menu - functions

When you are in the tool menu (see section 8), you can use the tools described below. Step between the various tool fields by pressing the up or down arrow symbols. You can always leave the tool menu with the MENU button.

Note: Functions marked with * indicate that the symbol for the function is displayed on the control panel even if the accessory is not installed!



1. Arrow symbols

Step between the various tool fields by pressing the up or down arrow symbols. You can always leave the tool menu with the MENU button.



2. Clock

The clock must be set if automatic nighttime mode or automatic start is to be used. If 12V voltage is lost, the clock will be reset and correct time will no longer be displayed. This is prevented with an optional AA battery backup.



3. Automatic night-time mode

This function is used when you want to programme the central heating to automatically lower the temperature at night and raise the temperature in the morning.



4. Starting the boiler automatically

This function is used to start the boiler automatically at a later point of time. With automatic start, the boiler works for 24 hours and then stops. After that, it repeats the automatic start once a week; at the same day and time, as long as the function is activated. For automatic start to function, the On/Off button must be set in the OFF position.



5. Constant pump operation

Cont.: With this function selected the pump is permanently on. (NB., this

ALDE HEATING OPERATING INSTRUCTIONS

function limits the supply of hot water, particularly when there is a low heating requirement) Therm: With this function selected the pump is controlled by the panel/room sensor. This is the normal operating mode for heating the vehicle and obtaining a normal supply of hot water. Factory setting is Therm.



6. *Pump Auto / 12V

In the Auto mode, the 230V pump operates, and when 230V is disconnected, the 12V pump starts. In 12V mode, the 12V pump is used even if 230V is connected. The Auto function is activated in the factory setting.



7. *Pump speed

The circulation pump's capacity can be remote controlled from the panel.

Note: A pump with remote control must be installed in order that this function can be used (see the manual for the vehicle, boat or building).



8. *LPG bottle full/empty

This function is used in combination with the cylinder changeover (DuoComfort or DuoControl) and indicates if the LPG bottle is full or empty. This function can also be used to control defroster heating of the cylinder changeover using an EisEx defroster.

Note: The cylinder changeover (DuoComfort or DuoControl) must be installed in order for this function to work (see the manual for the vehicle, boat or building).



9. Automatic anti-bacterial mode (legionella)

At 02.00 at night (if the clock is set) the boiler starts and works according to "Hot water boost" (see section 5). This is in order to reduce the risk of legionella. The function is deactivated in the factory setting.



10. Offset (temperature adjustment)

Using this function, you can calibrate the temperature on the panel if you notice that the temperature (the stabilised room temperature) is not the same as the temperature shown on the panel. This also applies to outdoor temperature.



11. Button sound

With this function, you can activate or deactivate the button sound. The button sound is activated in the factory setting.



12. Screen Brightness

Brightness: The brightness of the display (working mode) can be adjusted from 1 to 10. Factory setting is 5.

Standby brightness:

Off: Used to turn the display's backlighting off so that the display is turned off (becomes dark) in standby mode (the LED is still active).

On: Used to activate the backlighting in the display (low lighting) in standby mode (the LED is still active). Factory setting is On.



13. Language

This function is used to reset the screen between different languages. Available languages are: English, French and German. On the other hand, the service menu is only in English (see section 10.1).



14. Tools / Key

Under Tools / Key you can lock or unlock access to the tool menu.



15. *External start

This function is used when starting the boiler from the outside, for example, with GSM. When external start has been activated, the control panel's On/Off button must be switched off (see the assembly setting manual for external start).

Note: To use this function, an external start installation is required (see the manual for the vehicle, boat or building).

*230 V

This function is used in connection with starting the boiler when connection of 230 V to vehicle takes place from outside. When the 230 V function has been activated the control panel's on/off button must be turned off, but 12 V must be connected (the vehicle's main switch is on). Before turning off the control panel with the on-/ off button set the parameters/functions that you want the boiler to have when it starts (230 V is connected).



16. *Load monitor

This function is used to prevent the 230V fuses being overloaded. If the total power consumption of the vehicle, boat or building exceeds the set value, the boiler's power will be automatically reduced. On account of voltage variations and tolerances, different setting levels can be selected (for example, for 6A fuse, one can choose 6 or 7 Amp setting). If the fuse does not hold, choose a lower set value. The function is deactivated in the factory setting.

Note: The load monitor has to be installed for the function to be used (see the manual for the vehicle, boat or building).

1. Service

With this function, you can see certain values of the boiler on the screen. The values are updated once a second

2. Resetting the system

With this function the panel can be reset to factory setting. After resetting, the panel is set as follows: the boiler in Off mode, electrical operation 1kw, LPG heating in On mode and indoor temperature 22°C. Other functions are disconnected.

3. Translator

This function is used to enable an external main panel to operate the boiler. If a main panel is connected to the Alde panel, it is activated with the On button, otherwise it must always be set at Off. Factory setting is Off.

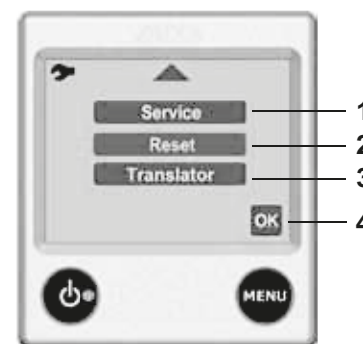
4. OK

To leave the tool menu, press OK or Menu.

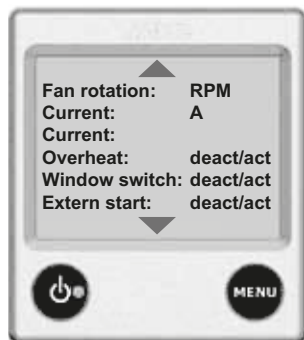
Service menus



10. Service and Resetting the system



ALDE HEATING OPERATING INSTRUCTIONS



11. Fault messages



If an error occurs in the system, the display will show the reason. This is only displayed when the panel is on standby.

Battery too low: If the vehicle, boat or building has a battery voltage of less than 10.5V, the boiler stops. It is automatically reset when the voltage reaches 11V.

Fan failure: Faulty fan speed. In order to reset, disconnect 12V from the boiler and reconnect (automatic reset after 5 minutes).

Gas failure: Gas finished. Reset by switching off and restarting the boiler in accordance with item 1.

Overheat red fail: Overheating protection (red cable) triggered. To reset, disconnect 12V from the boiler and reconnect.

Overheat blue fail: Overheating protection (blue cable) triggered. To reset, disconnect 12V from the boiler and reconnect.

Window open: Window open, the boiler stops for gas. Gas operation in the boiler starts again when the window is closed. The electrical operation remains in function. Check the vehicle, boat or building manual to see whether this function is installed.

Connection failure: There is a connection fault between boiler and panel. To reset, disconnect 12V from the boiler and reconnect.

Connection fail ext: Communication error between Alde's panel and external panel.

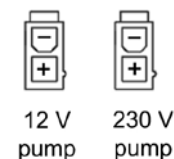
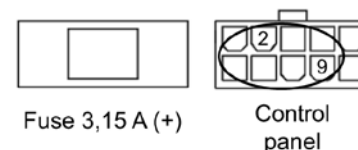
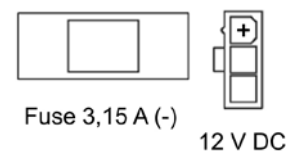
Panel failure 1: Panel fault.

Panel failure 2: Panel fault.

12. Emergency start

- Disconnect the 12V cable and the cable to the panel on the boiler.
- Connect a cable between 2 and 9 in the connector on the boiler.
- Reconnect 12V to the boiler

Now the boiler starts with gas and 1kW. Adjustment of the room temperature is not working. Constant pump operation is set.



DOMETIC REFRIGERATOR

Dometic absorption refrigerator

Before you start using the refrigerator, please read the operating instructions carefully.

These instructions provide you with the necessary guidance for the proper use of your refrigerator. Observation of the instructions and handling recommendations is important for dealing with the refrigerator safely and for protecting you from injury and the refrigerator from damage. You must understand what you have read before you carry out a task.

Keep these instructions in a safe place close to the refrigerator so they may be referred to at any time.

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Warranty

Warranty arrangements are in accordance with EC Directive 44/1999/CE and the normal conditions applicable for the country concerned.

For warranty or other maintenance, please contact our customer services department.

Any damage due to improper use is not covered by the warranty. The warranty does not cover any modifications to the appliance or the use of non-original Dometic parts. The warranty does not apply if the installation and operating instructions are not adhered to and no liability shall be entertained.

DOMETIC REFRIGERATOR

Limitation of liability

All information and guidance in these operating instructions were prepared after taking into consideration the applicable standards and regulations as well as the current state of the art. Dometic reserves the right to make changes at any time which are deemed to be in the interest of improving the product and safety.

Dometic will assume no liability for damage in the case of :

- Non-observation of the operating instructions
- Application not in accordance with the regulations or provisions
- Use of non-original spare parts
- Modifications and interferences to the appliance
- Effect of environmental influences, such as
 - temperature fluctuations
 - humidity

Customer services

Dometic offers a pan-European customer service network. Find your authorised customer service centre by calling the phone number indicated in the EuroService Network book, EuroService Network - which accompanies every refrigerator. You can also obtain the address information of the nearest customer service from www.dometic.com. When contacting Dometic Customer Services, please state the model, product number and serial number together with the MLC code, if applicable. You will find this information on the rating plate inside the refrigerator. We recommend that you note this data in the field provided on the front page of the operation manual.

Spare parts

Parts can be ordered throughout Europe from our customer services. Always give the model and product number when you contact the customer service! You will find this information on the rating plate inside the refrigerator.

Environmental notice

Refrigerators manufactured by Dometic GmbH are free of CFC/HCFC and HFC. Ammonia (a

natural compound of hydrogen and nitrogen) is used in the cooling unit as a coolant. Non-ozone-hazardous cyclopentane is used as a propellant for manufacturing PU foam insulation.

In order to ensure that the recyclable packaging materials are re-used, they should be sent to the customary local collection system.

The appliance should be transferred to a suitable waste disposal company that will ensure re-use of the recyclable components and proper disposal of the rest. For eco-friendly draining of the coolant from all absorber refrigeration units, a suitable disposal plant should be used.

Energy-saving tips

- At an average ambient temperature of 25°C, it is sufficient to operate the refrigerator at middle thermostat setting.
- Where possible, always store precooled products.
- Do not expose the refrigerator to direct sunlight.
- Ensure that air circulation of the cooling unit is not obstructed.
- Defrosting at regular intervals saves energy (see "Defrosting"). Open the refrigerator door only for a short period of time when removing products.
- Run the refrigerator for about 12 hours before filling it.

Safety instructions

Application according to regulations

This refrigerator is designed for installation in recreation vehicles such as caravans or motorhomes. The appliance has been type approval tested for this application in accordance with the EC Gas Directive.

The refrigerator is to be used solely for storing foodstuffs.

User's responsibility

Anyone operating the refrigerator must be familiar with the safe handling and understand the advice in these operating instructions. Children may only operate the appliance, if they have been made aware of how to operate the refrigerator safely and the dangers attending incorrect operation.

Protection of children when disposing of the equipment

⚠ WARNING: When disposing of the refrigerator, detach all refrigerator doors and leave the storage racks in the refrigerator. In this way inadvertent entrapment and suffocation is prevented.

Working upon and checking the refrigerator

⚠ WARNING: Work on gas equipment, exhaust system and electrical facilities must be carried out by authorised personnel only. Substantial damage to property and / or injury to persons can arise through unprofessional procedures.

⚠ WARNING: Never use an unshielded flame to check gas bearing parts and pipes for leakage! There is a danger of fire or explosion.

⚠ WARNING: Never open the absorber cooling unit! It is under high pressure. There is a danger of injury.

Information on coolant

Ammonia is used as a coolant. This is a natural compound also used in household cleaning agents (1 litre of Salmiak cleaner contains up to 200g of ammonia - about twice as much as is used in the refrigerator). Sodium chromate is used for corrosion protection (1.8% by weight of the solvent).

In the event of leakage (easily identifiable from the strong odour), proceed as follows:

- Switch off the appliance.
- Air the room thoroughly.
- Inform authorised customer services.

Note: For your safety it was ascertained in an expert's report that no impairment of health exists when the coolant is discharged.

Operating the refrigerator with gas

It is imperative that the operating pressure corresponds to the data specified on the rating plate of the appliance. Compare the operating pressure of the rating plate with the data specified on the pressure reducing valve of the liquid gas cylinder.

⚠ WARNING: Operating the appliance with gas is not permitted

- At petrol stations
- On ferry boats
- While transporting the caravan / motorhome by a transporter or breakdown vehicle.

There is danger of fire!

Leave the equipment switched off.

DOMETIC REFRIGERATOR

Safety instructions when storing foodstuffs

Instructions for storing food in a refrigerator:

No refrigerator of any kind can improve the quality of the food; refrigerators can only maintain the food's quality for a short duration as from the time of storing it.

Please observe the following particular conditions for storing food in a refrigerator that is built into a vehicle:

- A change in the climatic conditions such as temperature fluctuations
- High temperatures inside the vehicle when it is closed and parked in direct sunlight (temperatures are possible up to 50°C)
- Use of the refrigerator during travel with the power supply of 12V DC
- A refrigerator built in behind a window and exposed to direct sunlight
- Storing the products too soon, i.e. shortly after starting up the appliance for use

Under these particular conditions the refrigerator cannot guarantee reaching the temperature needed for perishables.

Perishables include all products with a stipulated use-by date and a minimum storage temperature of +4°C or less, especially for meat, poultry, fish, sausages, pre-packed foods.

- Pack raw and cooked foods separately (e.g. in containers, aluminium foil, etc.).
- Only remove the outside packaging of single packs if all the necessary information, e.g. the use-by date, can also be read on the single packs.
- Do not leave cooled goods outside the refrigerator for too long.
- Place the foods with the next use-by date at the front, accordingly.
- Pack away any left-over food and eat at the first opportunity.

- Wash your hands before and after handling any food.
- Regularly clean the inside of the refrigerator.

Please observe the instructions and information regarding the use-by date on the outside packaging of the food.

Please observe section "Cleaning" of this instruction.

Refrigerator rating plate

The rating plate is to be found on the inside of the refrigerator. It contains all important details of the refrigerator. You can read off from this the model identification, the product number and the serial number. You will need these details whenever you contact the customer service centre or when ordering spare parts.

Dometic			
TYPE	C 40/110	CLIMATE CLASS	SN
MOD. NO.	RMS 8400	PROD. NO.	00921084272
BRUTTOINHALT TOTAL CAP. VOLUME BRUT	80 l 85 l	VERDAMPFERFACH FREEZER COMP. VOLUME COMPT BT	8 l 8 l
NUTZINHALT USEFUL CAP. VOLUME NET	77 l 82 l		
~ 220-240V / 125 W ~ 12 V / 120 W	LPG	Q _n	0.252 kW (HSE)
		Δ _n	18.3 g/h
4	5	13+ 28-30/37 138/P 28-30 ISP 37	mbar
CE 0063 BL3214	G30, G31	p= 30/37 mbar	
ABSORPTION	NH ₃ = 115 g	Na ₂ CO ₃ = 7.0 g	p max = 35 bar
CE 0063	021054	2.660	
FKW, FSKW FREI / CFC, HCFC FREE	MADE IN GERMANY	00057384562	

1 - Model Number

2 - Product Number

3 - Serial Number

4 - Electrical rating details

5 - Gas pressure

The cooling unit's performance is influenced by ambient temperatures. Please select the medium setting for ambient temperatures between +15°C and +25°C (refer to Setting of cooling compartment temperature.) The unit operates within its optimum performance range.

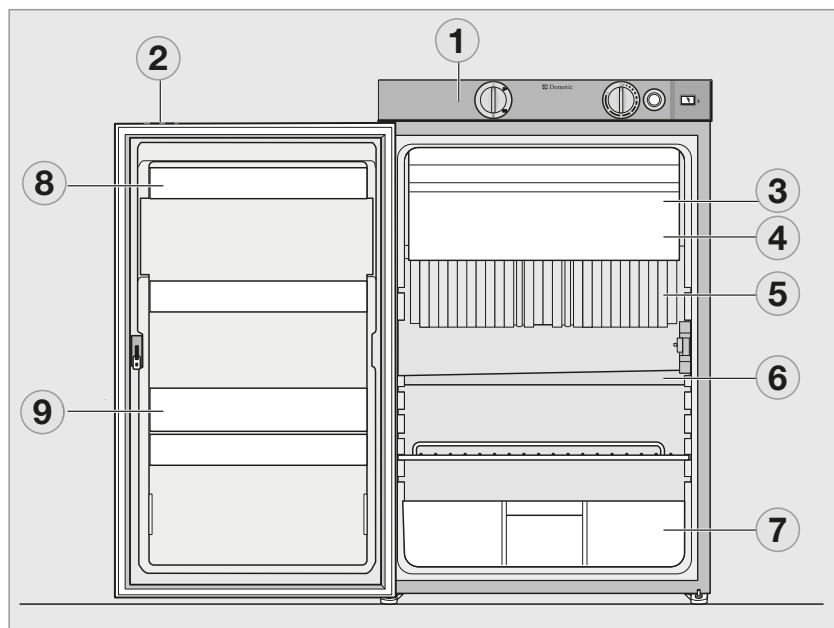
Dometic refrigerators work according to the absorption principle. For physical reasons, an absorption system responds slowly to

changes made by the thermostat controller, by loss of cooling energy through opening the door storing food. The devices meet the cooling performance requirements of the Climatic Clas SN acc. to EN/ISO 7371 in the temperature range of +10°C to +32°C ambient temperature.

For temperatures below +10°C, winter covers should be installed. For ambient temperatures exceeding +32°C for a longer period of time, it is recommended installing Dometic additional fan (item no. 241 2985 - 00).

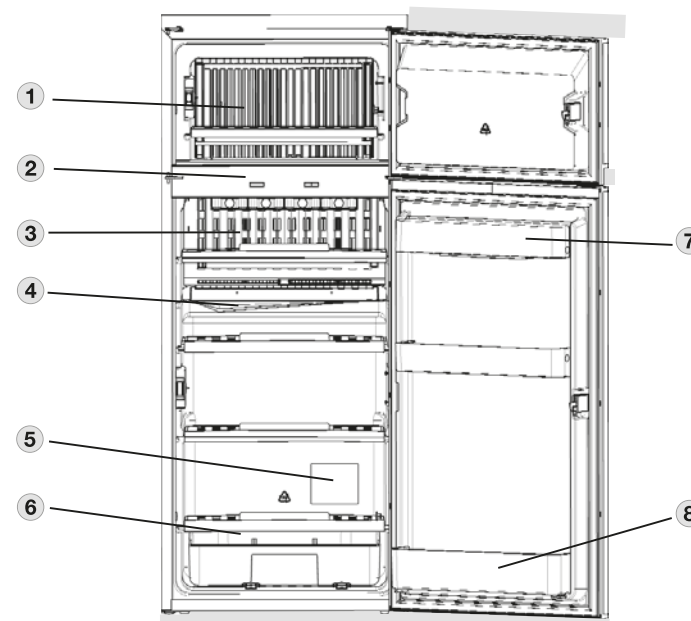
DOMETIC REFRIGERATOR

Description of refrigerator



(Appearance is model specific)

- 1 - Operating controls
- 2 - Door locking button
- 3 - Freezer compartment (removable)
- 4 - Insertable grid shelf (available as option, to be used when freezer compartment is removed)
- 5 - Post-evaporator for cooling compartment
- 6 - Condensation water drain channel
- 7 - Vegetable bin
- 8 - Upper door shelf with flap, egg shelf available as option may be inserted
- 9 - Lower door shelf with bottle holders



- 1 - Freezer compartment
- 2 - Operating controls
- 3 - Post evaporator for cooling compartment
- 4 - Condensation water drain channel
- 5 - Data plate
- 6 - Vegetable bin
- 7 - Upper door shelf with flap, egg shelf available as option may be inserted.
- 8 - Lower door shelf with bottle holders

DOMETIC REFRIGERATOR

Refrigerator operation

The refrigerator is equipped to operate on three power modes:

- Mains voltage (230V AC)
- Direct-current voltage (12V DC)
- Gas (liquid gas propane/butane)

Select the desired power mode by the energy selector switch (battery igniter type models) or the MODE button (MES, AES). Appliances with automatic energy selection (AES) are additionally provided with "automatic mode" function. The AES system automatically selects the best energy source for each particular situation.

Cleaning

Before starting up the refrigerator, it is recommended that you clean it inside and repeat this at regular intervals.

Use a soft cloth and lukewarm water with a mild detergent. Then wipe out the appliance with clean water and dry thoroughly.

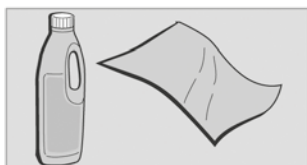


Fig. 6

To avoid material alterations, do not use soap or hard, abrasive or soda-based cleaning agents.

Do not allow the door seal to come into contact with oil or grease.

Maintenance

- In compliance with the applicable regulations, please note that the gas unit and the connected ventilation ducts must be checked by authorised technical personnel after first use and after every other year for compliance with the European Standard EN 1949. A test certificate has to be issued. It is the user's responsibility to arrange this test.

- The gas burner must be inspected and cleaned as necessary at least once a year. When using liquefied petroleum gas (tank or refill cylinders) the maintenance interval is reduced to half-yearly or quarterly. Keep the evidence of maintenance work carried out on your refrigerator.

- Work on gas and electrical equipment shall be carried out by qualified personnel only.

It is recommended that this is carried out by an authorised customer services department.

We recommend maintenance following an extended shutdown of the vehicle. Please contact our customer services.

Manual energy selection / automatic ignition (RMS 8551 RMD 8551) MES (fridge models)



Fig. 7

- 1 - Power ON/OFF switch
- 2 - Energy selector button 230V ~
- 3 - Energy selector button GAS
- 4 - Energy selector button 12V =
- 6 - Temperature level selection
- 7 - Temperature level display
- 8 - Indicator LED failure / Reset button GAS FAILURE

Switching ON/OFF

- Switch ON by pressing button (1), 2s
- Switch OFF by pressing button (1), > 2s

230V AC operation

- Select "Mains voltage" by pressing button (2)
- Set temperature step by pressing button (6)

12V DC operation (vehicle's battery)

- Select "Battery voltage" by pressing button (4)
- Set temperature step by pressing button (6)

Gas operation

- Select "Gas" by pressing button (3)
- Set temperature step by pressing button (6)

RMS 8551/RMD 8551 MODELS MES appliances (manual energy selection)

Electrical operation

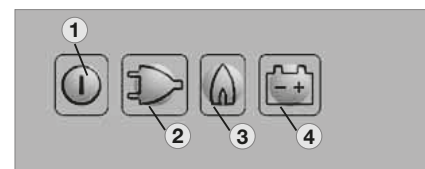


Fig. 16

To start the refrigerator, press button (1) for 2 seconds.

The refrigerator starts with the last selected type of energy.

230V operation :

12V operation :

Gas operation



Fig. 17

Gas operation :

The ignition process is activated automatically by means of an automatic igniter.

Note: The flame extinguishes after reaching the preset cooling compartment temperature and ignites again if the cooling compartment temperature increases again. If the flame is not lit after the first ignition attempt, the automatic igniter repeats the ignition twice (duration 30 s) at time intervals of 2 minutes. If the flame is not lit afterwards, a fault is indicated.

Setting of cooling compartment temperature

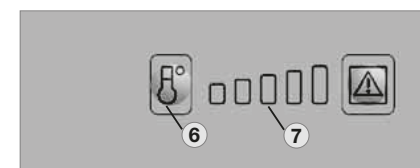


Fig. 18

Select the desired cooling compartment temperature by pressing button (6) .

The LED display (7) of the selected temperature setting is illuminated.

The scale starts with MIN position at the left LED position (small bar = highest temperature) and climbs up to MAX position at the right LED position (large bar = lowest temperature).

Note: The temperature levels do not relate to absolute temperature values.

Additional features

- The brightness of the display reduces after a few seconds if no other buttons are pressed. The indicator lights again if a button is pressed. Press the button again to activate the required function.
- Failures are indicated by flashing of the failure indicator LED.
- Should the door be kept open for too long (more than 2 minutes), an acoustic signal is initiated (pulsing whistle tone).
- Should the electronic control detect any failure, an acoustic signal will sound (pulsing whistle tone). At the same time the display starts flashing (for trouble-shooting, please refer to page 129).

DOMETIC REFRIGERATOR

Gas operation with internal batteries (optional)

An optional battery compartment in the electronics case for internal (self-contained) power supply of the electronics is available for the model variants RM 8xx1 and RM 8xx5 (appliances with electronics).



Fig. 21

Load the battery compartment with batteries (8 x AA 1.5 V) before operating the refrigerator.

All operating modes can be selected while the on-board 12 V DC power supply is active. The internal voltage is disconnected.

If the on-board 12 V DC power supply is not present or there is an interruption of the mains power supply during operation, the electronics automatically switch to the internal (battery) power supply. The refrigerator can now only be operated in the gas mode.

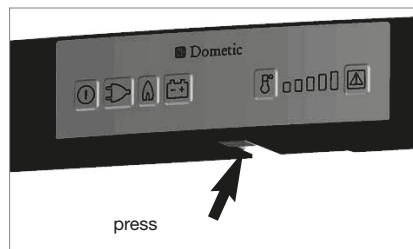
All LED indicators except the GAS LED are not lit during operation with internal batteries. The GAS LED flashes every 15 seconds.

If a button is pressed, the temperature level LEDs (7) also light.

If the battery voltage is too low, an acoustic signal (whistle tone) sounds every 15 seconds. Then replace the batteries in the battery compartment.

Inserting / changing the batteries

- Switch off the refrigerator, as described in section 'Shutting of the refrigerator'



Opening battery compartment

Fig. 22

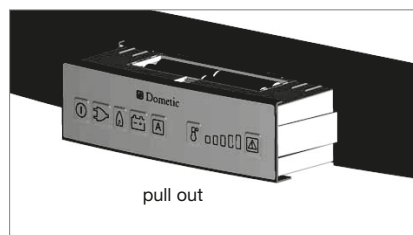


Fig. 23

Note: Batteries (8 x AA 1.5V) are not included!

⚠ WARNING:

- Observe the correct polarity !
- Do not connect non-rechargeable batteries to a charger.
- Remove rechargeable batteries from the battery compartment before charging.
- Avoid short circuits on the contacts in the battery compartment!
- Remove discharged batteries.
- Remove the batteries from the battery compartment if the refrigerator will not be used for a long time.
- Do not mix different types of batteries.

Explanation of operating controls

The control panel buttons are not accessible when the refrigerator door is closed. Open the bottom door to reach the operating buttons.

Depending on the door opening direction, there are two LEDs on the left or right edge of the control panel. The outer LED (1) indicates that the refrigerator is operational (blue). The other LED (2) lights red in the event of a fault.



Fig. 4

Refrigerators for self-contained (gas) operation contain two battery compartments in the control panel which are located on the left and right next to the button bar.



Fig. 5

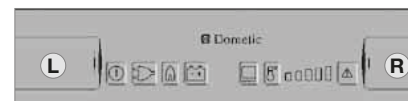


Fig. 6

Manual energy selection / automatic ignition (RMD 8xx1) MES



Fig. 7

- 1 - Power ON/OFF switch
- 2 - Energy selector button 230V ~
- 3 - Energy selector button GAS
- 4 - Energy selector button 12V =
- 6 - Frameheating
- 7 - Temperature level selection

- 8 - Temperature level display

- 9 - Indicator LED failure / Reset button GAS FAILURE

Switching ON/OFF

- Switch ON by pressing button (1), 2s
- Switch OFF by pressing button (1), > 2s

230V AC operation

- Select "Mains voltage" by pressing button (2)
- Set temperature step by pressing button (7)

12V DC operation (vehicle's battery)

- Select "Battery voltage" by pressing button (4)
- Set temperature step by pressing button (7)

Gas operation

- Select "Gas" by pressing button (3)
- Set temperature step by pressing button (7)

RMS 8551/RMD 8551 models MES-appliances (manual energy selection)

Electrical operation

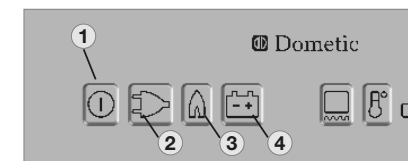



Fig. 9

To start the refrigerator, press button (1) for 2 seconds.

The refrigerator starts with the last selected type of energy.

230V operation :  Press button (2) :

12V operation :  Press button (4) :

DOMETIC REFRIGERATOR

Gas operation

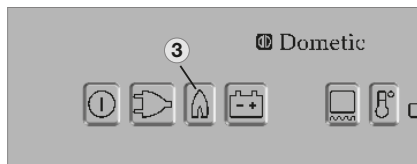


Fig. 10

Gas operation :

Press button (3) :

The ignition process is activated automatically by means of an automatic igniter.

Note: The flame extinguishes after reaching the preset cooling compartment temperature and ignites again if the cooling compartment temperature increases again. If the flame is not lit after the first ignition attempt, the automatic igniter repeats the ignition twice (duration 30 s) at time intervals of 2 minutes. If the flame is not lit afterwards, a fault is indicated.

Setting of cooling compartment temperature

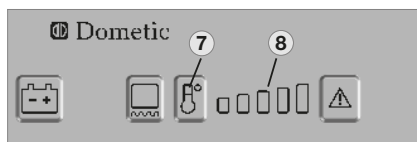


Fig. 11

Select the desired cooling compartment temperature by pressing button (7) .

The LED display (8) of the selected temperature setting is illuminated.

The scale starts with MIN position at the left LED position (small bar = highest temperature) and climbs up to MAX position at the right LED position (large bar = lowest temperature).

Note: The temperature levels do not relate to absolute temperature values.

Additional features

- The brightness of the display reduces after a few seconds if no other buttons are pressed. The indicator lights again if a button is pressed. Press the button again to activate the required function.
- Failures are indicated by flashing of the failure indicator LED.
- Should the door be kept open for too long (more than 2 minutes), an acoustic signal is initiated (pulsing whistle tone).
- Should the electronic control detect any failure, an acoustic signal will sound (pulsing whistle tone). At the same time the display starts flashing (for trouble-shooting, please refer to page 129).

Gas operation with internal batteries (optional)

An optional battery compartment in the electronics case for internal (self-contained) power supply of the electronics is available for the model variants RMD 85x1 and RMD 85x5 (appliances with electronics).



Fig. 14

Load the battery compartment with batteries (8 x AA 1.5 V) before operating the refrigerator.

All operating modes can be selected while the on-board 12 V DC power supply is active. The internal voltage is disconnected.

If the on-board 12 V DC power supply is not present or there is an interruption of the mains power supply during operation, the electronics automatically switch to the internal (battery) power supply. The refrigerator can now only be operated in the gas mode.

All LED indicators except the GAS LED are not lit during operation with internal batteries. The GAS LED flashes every 15 seconds.

If a button is pressed, the temperature level LEDs (7) also light.

If the battery voltage is too low, an acoustic signal (whistle tone) sounds every 15 seconds.

Then replace the batteries in the battery compartment.

Inserting / changing the batteries

Switch off the refrigerator, as described in section 4.14 Shutting of the refrigerator.



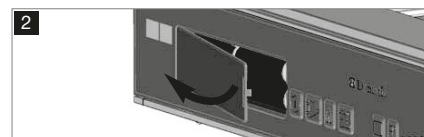
Opening left battery compartment

Fig. 15



Opening right battery compartment

Fig. 16



Note: Batteries (8 x AA 1.5V) are not included!

⚠ WARNING:

- Observe the correct polarity!
- Do not connect non-rechargeable batteries to a charger.
- Remove rechargeable batteries from the battery compartment before charging.
- Avoid short circuits on the contacts in the battery compartment!
- Remove discharged batteries.
- Remove the batteries from the battery compartment if the refrigerator will not be used for a long time.
- Do not mix different types of batteries.

Frame heating (fridge freezer models only)

All fridge freezer models are equipped with a frame heating (12VDC/3,5W) around the freezer compartment. During summer months with high temperatures and humidity the metal frame may have water droplets forming. To evaporate these droplets switch on the frame heating with button (6).



Fig. 18

The operating time of the frame heater can be set to 2 hours, 5 hours or continuous operation. After selecting the operating time using the button (6), the temperature level indicator (8) is extinguished for a short time to show the set operating time for a few seconds. The display then returns to the temperature level indicator.

Operating time: 2 hours

Press button (6) once

Display



Operating time: 5 hours

Press button (6) twice

Display



Permanent operation

Press button (6) three times

Display



DOMETIC REFRIGERATOR

⚠ WARNING: In order to prevent discharge of the onboard battery, change the frame heater from continuous operation to another operating time or switch it off.

Note: The frame heater is active for 30 minutes after switching on and then switches itself off and on again at time intervals of 5 minutes.

Door locking

⚠ WARNING: As a basic rule, shut and lock the refrigerator before you start your journey!

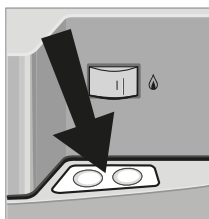


Fig. 24

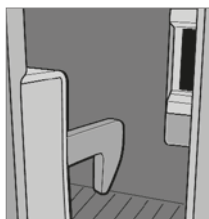


Fig. 25

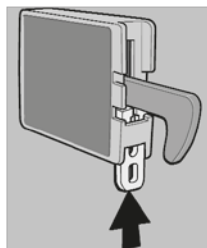
Open the door by pressing the locking button and pull open (see Fig. 24).

Shut the door again by pushing it to close. The snapping into the lock can be heard.

While the vehicle is parked, the locking hook may be fixed to facilitate opening of the door (Fig. 26-27).

Fastening and releasing the door lock hook when parking the vehicle

If the vehicle is parked for a longer period of time, the locking hook may be clamped by means of a lockbar. The door may now be opened by just pulling it without need of pressing the locking button.



Fastening

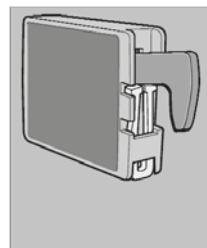
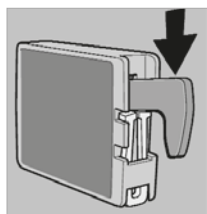


Fig. 27



Releasing

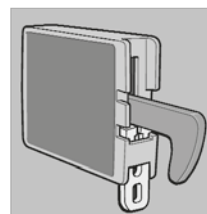


Fig. 29

Lighting

The interior lighting is controlled using a door contact. Should the door be kept open more than 2 minutes, an acoustic signal is initiated (pulsing whistle tone). **(except for models with battery igniter).**

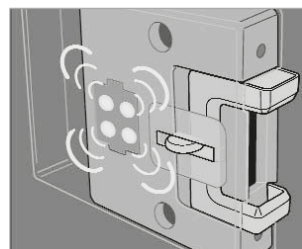


Fig. 30

Note: Please contact the authorized Dometic Service if a failure occurs.

Positioning the storage racks

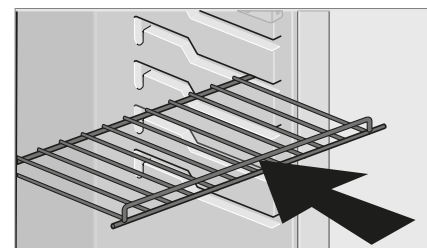


Fig. 31

The storage racks may be pulled out by smoothly lifting them and may be positioned as desired.

Removable freezer compartment

RMS 8551 under counter fridge

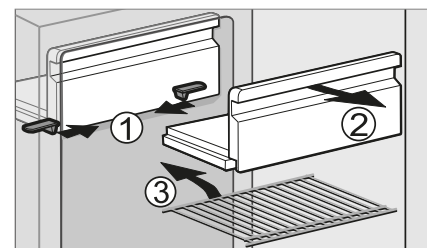


Fig. 32

To enlarge the cooling compartment, just remove the freezer compartment.

1. Unlock the freezer compartment on both sides.
2. Pull the freezer compartment out. Store the freezer compartment safely in order to prevent damage

Note: Once the freezer compartment is removed, an additional storage rack (3.) may be installed. The storage rack is a piece of extra equipment and may be obtained by Dometic.

Winter operation

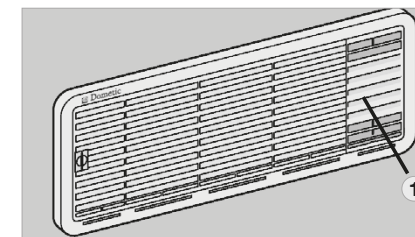


Fig. 35

In winter, check that the ventilation grilles and the exhaust duct system (1) have not been blocked by snow, leaves, etc.

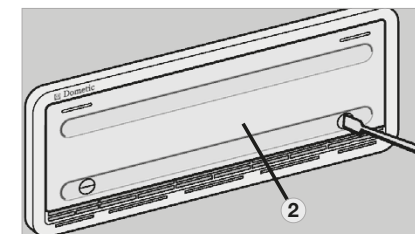


Fig. 36

When the outside temperature falls below +10°C, the winter covers should be fitted. This protects the unit from excessively cold air which could have adverse effects on the performance of the unit.

Covers may be supplied as part of the specification of your caravan or alternatively are available through most Swift Group Dealers.

Note: You should also attach the winter covers if the vehicle is taken out of service for a longer period of time or while it is being cleaned from the outside.

Winter operation (fridge freezer models)

In winter, check that the ventilation grilles and the exhaust duct system (1) have not been blocked by snow, leaves, etc.

Note: Winter covers are not supplied as standard on most models.

DOMETIC REFRIGERATOR

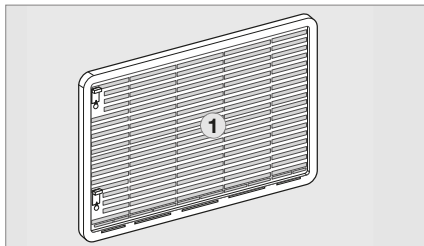


Fig. 32

When the outside temperature falls below +10°C, the winter cover (2) should be fitted. This protects the unit from excessively cold air which could have adverse effects on the performance of the unit.

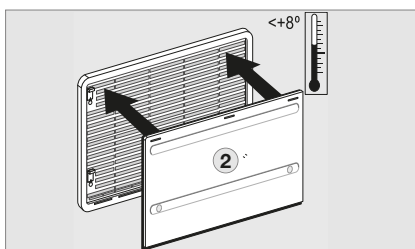


Fig. 33

You should also attach the winter covers if the vehicle is taken out of service for a longer period of time or while it is being cleaned from the outside.

Storing food and making ice cubes

Storing products in the cooling compartment

- Switch the refrigerator on approx. 12 hours before filling it.
- Always store pre-cooled foods in the refrigerator. Make sure that the food is well cooled when it is bought and also when transporting it. Use insulated cooling bags.
- Open the refrigerator door only for a short period of time when removing products.

- Products must be packed - best of all in closed containers, wrapped in aluminium foil or similar - and stored separately from each other, in order to prevent drying out or odours.
- Allow foods that have been warmed up to cool down before storing.
- Avoid storing products in the refrigerator that could emit volatile flammable gases.
- Do not overfill the storage grids and compartments to prevent obstructing the internal air circulation.
- Maintain a clearance of approx. 5 - 10 mm between chilled products and post-evaporator ("cooling fins").
- Do not expose the refrigerator to direct sunlight. Please bear in mind that the temperature inside a closed vehicle increases sharply if exposed to sunlight and that this can reduce the efficiency of the refrigerator.
- Ensure that air circulation of the cooling unit is not obstructed. Keep the ventilation grilles free from obstructions.

Storing products in the freezer compartment

- Do not keep carbonated drinks in the freezer.
- The freezer compartment is suitable for making ice cubes and for short-term storage of frozen food. It is not suitable as a means of freezing foods.

When ambient temperatures are lower than +10°C and the refrigerator is exposed to these temperatures for extended periods of time, an even regulation of freezer temperature cannot be guaranteed for system related reasons. This can cause the temperature in the freezer to rise and the stored goods to melt.

Refrigerator compartments

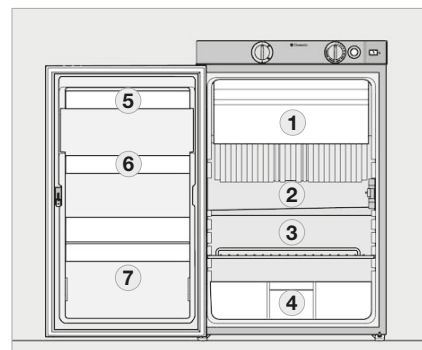


Fig. 37

- 1 - Freezer compartment:**
already frozen food (deep-frozen food)
- 2 - Middle compartment:**
Dairy products, convenience food
- 3 - Bottom compartment:**
Meat, fish, food for defrosting
- 4 - Vegetable compartment:**
Salads, vegetables, fruit
- 5 - Top door shelf:**
Eggs, butter
- 6 - Middle door shelf:**
Cans, dressings, ketchup, jam
- 7 - Bottom door shelf (drinks compartment):**
Drinks in bottles or bags

Positioning the storage racks

The storage racks may be pulled out by loosening the two locking devices (1) underneath. For loosening pull the slider to the middle, for fastening pull them sideways.

Two of the storage racks are secured. In this way inadvertent entrapment and suffocation of children is prevented, if the storage racks are removed. To protect children it must be avoided to create space for children in the cooling compartment.

⚠ WARNING: Do not remove these storage racks. Thus children have no space to be entrapped in the refrigerator.

If it is necessary to remove these storage racks (i.e. for cleaning) loosen the locking pins (2) at first as shown, by means of a suitable screw driver.

Put in place the locking pins after removing the storage racks.

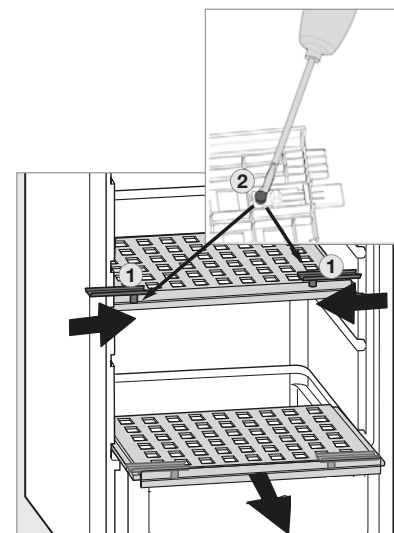


Fig. 26

DOMETIC REFRIGERATOR

Shutting off the refrigerator

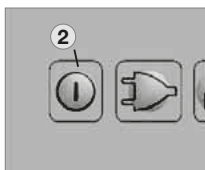


Fig. 41

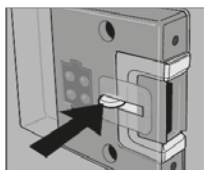


Fig. 42

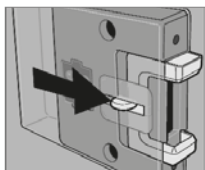


Fig. 43

- For battery igniter models, set energy selector switch (1) to position "OFF". The appliance is switched off (Fig. 40).
- Switch off MES and AES models by pressing button (2). Keep button (2) pressed for 3 seconds. The display disappears and the appliance is fully switched off (Fig. 40).
- Release the locking mechanism of the door lock by pushing it and shift it to the front. If the door is shut in this position, a small gap is nevertheless kept open to prevent formation of mildew.
- If the refrigerator is to be taken out of service for an extended period of time, close the onboard shut-off valve and the cylinder valve.

TROUBLESHOOTING

Troubleshooting

Failure: The refrigerator does not cool sufficiently.

Possible cause	Action you can take
Inadequate ventilation to the unit	Check that the ventilation grilles are not covered
Thermostat setting is too low	Set thermostat to a higher level
The condenser is heavily frosted	Check that the refrigerator door closes properly
Too much warm food has been stores inside within a short period of time	Allow warm food to cool down before storage
The appliance has been running for only a short period of time	Check whether the cooling compartment works after approx 4-5 hours
Ambient temperatures too high	Regularly remove ventilation grilles.

Failure: The refrigerator does not cool in gas operation mode.

Possible cause	Action you can take
Gas cylinder empty	Change gas cylinder
Is the upstream shut-off device open?	Open shut-off device
Air in the gas pipe?	Switch off the appliance and start again. Repeat this procedure 3-4 times, if necessary.

Failure: The refrigerator does not cool in 12 V operation.

Possible cause	Action you can take
On-board fuse defective	Fit new fuse
On-board battery displaced	Check battery, charge it
Engine not running	Start engine
Heating element defective (please refer to failure indication)	Please inform the Dometic Customer Services.

TROUBLESHOOTING

Failure: The refrigerator does not cool in 230 V operation.

Possible cause	Action you can take
On-board fuse defective	Fit new fuse
Vehicle not connected to mains supply voltage	Make a connection to a mains power supply
AES: Gas operation despite connection to the mains supply voltage?	Appliance switches to gas operation due to insufficient mains supply voltage (automatically switches back to 230 V operation)
Heating element defective (please refer to failure indication)	Please inform Dometic Customer Services

Information on failure display and trouble-shooting

- Refrigerators with an electronics system (MES, AES) indicate the occurrence of a malfunction by the LED or display flashing.
- If a malfunction occurs, the indicator LED "Failure" (8) flashes simultaneously. In the case of AES models an acoustic alarm sounds.

Before notifying the authorised Service Center, please check whether:

- the instructions in section "Operating the refrigerator" have been observed.
- the refrigerator stands level.
- it is possible to operate the refrigerator with any available power source.

Status indicators

MES

Fig. 51

- 1 - Button ON / OFF
- 2 - Energy selector switch 230 V AC
- 3 - Energy selector switch GAS
- 4 - Energy selector switch 12V DC
- 6 - temperature level button
- 7 - temperature level display
- 8 - fault LED / GAS FAULT reset button

Operation with on-board 12 v power supply

Indicator	Fault	Remedy
(2) and (8) flashing and acoustic signal 20s	230 V mode: "230V" not available or voltage too low	Check mains power connection, mains voltage, fuse
(4) and (8) flashing and acoustic signal 20s	12 V mode: "12V" not available or voltage too low	Check 12V connection, on-board battery, fuse
(3) and (8) flashing and acoustic signal 20s	Gas mode: Flame not ignited	Check gas supply (gas bottle, gas valve) Press the (8) button after clearing the fault
Acoustic signal, 15s at two minute intervals	Interior lighting is switched on	Close door, check door contact
(2) and (7) flashing and acoustic signal 20s	230 V mode: 230V heating element defective	Arrange replacement of 230V heating element, contact Customer Service
(4) and (7) flashing and acoustic signal 20s	12 V mode: 12V heating element defective	Arrange replacement of 12V heating element, contact Customer Service
(7) flashing and acoustic signal 20s	Temperature sensor without contact or defective	Contact Customer Service
(3) and (7) flashing and acoustic signal 20s	Burner defective or cooling unit defective	Check burner, burner nozzles, if necessary contact Customer Service and arrange replacement

COOKER OPERATION

Operation with batteries (internal power supply)

Indicator	Fault	Remedy
(3) and (8) flashing brightly	Flame not ignited	Check gas supply (gas bottle, gas valve) Press the (8) button after clearing the fault
(3) and (7) flashing brightly	Burner defective or cooling unit defective	Check burner, burner nozzles, if necessary contact Customer Service and arrange replacement
Acoustic signal at 15 second intervals	Undervoltage detection (internal batteries)	Replace batteries
Automatic switching from external to internal power supply does not function (absence of the onboard 12V power supply for the electronics)	Refrigerator does not function, gas operation not possible although the batteries are inserted	Switch off the refrigerator and start again The onboard power supply was interrupted during the starting of the gas operation Note: No automatic switching is performed during the ignition.

Cooker 3 Burner + Hotplate operation

Burner operation

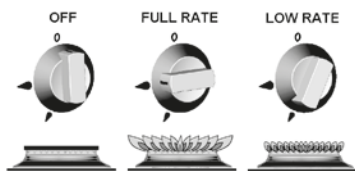


Fig. 1

Important

- Although each burner will support pans from 10 to 22cm, care should be taken not to overload the appliance as performance may be reduced.
- The following pan sizes are the maximum we recommend:- Electric Hotplate:- Ø180mm
Auxiliary Burner:- Ø200mm Semi-Rapid
Burner:- 2x Ø200mm or 1x Ø220mm with 1x Ø180mm

- When using small pans the flames should not spread beyond the base of the pan as this will reduce the efficiency of the burner.
- Avoid old or misshapen pans as these may cause instability.
- The lid must be opened fully prior to using the hotplate burners.

Using the Hotplate Gas Burners

- Ensure gas cylinder/supply is connected and turned on. In the event of a gas smell turn off at gas cylinder/mains and contact supplier.
- Flame supervision: Each burner is controlled individually and is monitored by a thermocouple probe. In the event of the burner flames being accidentally extinguished, turn off the burner control and do not attempt to re-ignite the burner for at least one minute.

- To light: Push in the control knob and turn to full rate – see Fig.1. Hold a lighted match or taper to the burner and push the control knob in and hold. It is necessary to hold the knob depressed after the burner has ignited for approximately 10 - 15 seconds, to allow the thermocouple probe to reach temperature, before releasing the knob. Should the flame go out when the knob is released, the procedure should be repeated holding the knob depressed for slightly longer.
- For models fitted with Spark Ignition the procedure is similar except that the burner can be ignited by depressing the ignition button, which is located on the fascia. If the burner has not lit within 15 seconds the control knob should be released and the burner left for at least 1 minute before a further attempt to ignite the burner.
- For simmering, turn the knob further anti-clockwise to the low rate position.
- To turn off: Turn the control knob until the line on the control knob is aligned with the dot on the control panel. Always make sure the control knob is in the off position when you have finished using the hotplate burners.

Operation

Using the Electric Hotplate

Ensure the electricity is switched on.

The hotplate control is numbered from 1 to 6. To turn it on, rotate the knob either clockwise or anti-clockwise to the required position. Position 1 is the coolest setting.

To turn the hotplate off, rotate the knob until the line or pointer on the knob lines up with the zero on the control panel.

The hotplate is a sealed construction and transfers heat through conduction. For maximum efficiency a correctly sized pan with a flat heavy gauge base should be used. Pan size should be the same or slightly larger (up to 1" / 2.5cm oversize).

Before using your hotplate for the first time, we recommend that you prime and then season it.

To prime the Hotplate

Switch on the hotplate for a short period, without a pan, to harden and burn off the coating.

Use a medium to high setting for 3 – 5 minutes. A non toxic smoke may occur during this process. Allow it to cool, then season.

To season the Hotplate

First heat the hotplate for 30 seconds on a medium setting, then switch off. Pour a minimal amount of unsalted vegetable oil onto a clean dry cloth or paper towel, and apply a thin coat of oil to the hotplate surface. Wipe off any excess oil, then heat the hotplate on a medium setting for 1 minute. Occasional seasoning will help to maintain the Hotplate's appearance.

⚠ WARNING:

- Glass lids may shatter when heated. Turn off the hotplate and allow it to cool before closing the glass lid.
- Remove all spillage from the surface of the glass lid before opening.
- The glass lid has the tendency to snap shut towards the end of lowering.

This is caused by the travel lock action of the hinges as it is activated.

Make sure all fingers are removed from appliance when closing the lid.

⚠ WARNING: The use of the electric hotplate and gas hobs will generate heat. We recommend, to avoid excess build-up of heat around the cooker area, the window is left opened when cooking to allow for additional ventilation.

COOKER OPERATION

Important

- Your appliance is fitted with a glass lid shut-off system, which cuts off the power to all hotplate burners (gas and electric) if the lid is closed.
- Ensure the glass lid is in the open and upright position before turning on the hotplate burners.
- Not all models are fitted with the shut-off system.

Operation

WARNING

On separate oven & Grill cookers

- The grill area can get hot when the oven is in use, even if the grill is switched off.
- Care should be taken when removing pans from the grill, i.e. use of oven gloves, and by making use of the removal grill pan handle.
- Care should be taken when using oven as knobs and handle may become hot.

Important

- The grill pan supplied is multi functional, for use in grill or oven.
- The handle design allows removal or insertion whilst the pan is in use.
- Always remove the handle when the pan is in use.
- The grill MUST only be used with the door open.

Using the Grill

1. Ensure gas cylinder/supply is connected and turned on. In the event of a gas smell turn off at gas cylinder/mains and contact supplier.
2. To light: Open door, push in the control knob and turn to full rate – see Fig 1 (page 132). Hold a lighted match or taper to the burner and push the control knob in and hold. The burner should ignite and the control knob should be held in for 10 -15 seconds before release.

If the burner goes out, repeat procedure holding control knob for slightly longer.

3. For models fitted with Spark Ignition the procedure is similar except that the burner can be ignited by depressing the ignition button, which is located on the fascia. Ignition must be carried out with the door open, and if the burner has not lit within 15 seconds the control knob should be released and the grill left for at least 1 minute before a further attempt to ignite the burner.
4. **Note:** the grill must only be used with the door open.
5. On first use of the grill, it should be heated for about 20 minutes to eliminate any residual factory lubricants that might impart unpleasant smells to the food being cooked. A non-toxic smoke may occur when using for the first time so open any windows and turn on mechanical ventilators to help remove the smoke.
6. Although the grill does heat up quickly, a few minutes preheat is recommended.
7. Flame Failure Device (FFD): the grill burner is fitted with a flame sensing probe, which will automatically cut off the gas supply in the event of the flame going out. In the event of the burner flames being accidentally extinguished, turn off the burner control and do not attempt to re-ignite the burner for at least one minute.

8. It is normal for the flames on this burner to develop yellow tips as it heats up.

9. A reversible grill pan trivet enables the correct grilling height to be achieved.

Fast Toasting	trivet in high position
Grilling Sausages	trivet in high position
Grilling Steak/Bacon	trivet in high position
Grilling Chops, etc	trivet in low position
Slow Grilling	trivet removed

10. To turn off: turn the control knob until the line on the control knob is aligned with the dot on the control panel. Always make sure the control knob is in the off position when you have finished grilling.

Operation

Important

- The appliance is fitted with a cooling system. The cooling fans should automatically switch on a couple of minutes after the grill and/or oven is turned on, and will remain on even after the appliance has been switched off.
- The fans should automatically switch off a few minutes after the appliance has been switched off, when the front of the appliance has cooled sufficiently.
- A constant 12V supply is necessary at all times to ensure the cooling system operates correctly.

Using the Oven

1. Ensure gas cylinder/supply is connected and turned on. In the event of a gas smell turn off at gas cylinder/mains and contact supplier.
2. To light: Open door, push in the control knob and turn to full rate (240°C). Hold a lighted match or taper to the burner and push the control knob in and hold. The burner should ignite and the control knob should be held in for 10 -15 seconds before release. If the burner goes out, repeat procedure holding control knob for slightly longer.
3. For models fitted with Spark Ignition the procedure is similar except that the burner can be ignited by depressing the ignition button, which is located on the fascia. Ignition must be carried out with the door open, and if the burner has not lit within 15 seconds the control knob should be released and the oven left for at least 1 minute before a further attempt to ignite the burner.
4. Place the oven shelf in the required position and close the door. Set control knob to approximately 200°C and heat the oven for about 30 minutes to eliminate any

residual factory lubricants that might impart unpleasant smells to the meals being cooked. A non-toxic smoke may occur when using for the first time so open any windows and turn on mechanical ventilators to help remove the smoke.

5. Although the oven does heat up quickly, it is recommended that a 10 minute preheat be allowed. The oven should be up to full temperature in about 15-20mins.
6. To turn off: turn the control knob until the line on the control knob is aligned with the dot on the control panel.
7. Shelf: the shelf has been designed to allow good circulation at the rear of the oven and is also fitted with a raised bar to prevent trays or dishes making contact with the back of the oven. To remove a shelf, pull forward until it stops, raise at front and remove.

Important

The pans and trays supplied with this appliance are the maximum sizes recommended for use. Larger pans and trays may restrict good circulation of heat, increasing cooking times.

Oven Temperature Control

The temperature in the oven is controlled by a thermostatic gas tap and is variable over the range 130°C to 240°C. The temperatures indicated refer to the centre of the oven and at any particular setting the oven will be hotter at the top and cooler towards the base.

The variation between top and centre, and centre to bottom is approximately equivalent to one gas mark. Good use can be made of the temperature variation in several dishes requiring different temperatures may be cooked at the same time. In this way maximum benefit can be obtained from the gas used to heat the oven. Care should be taken not to overload the oven, adequate spacing being used to allow free circulation for heat.

COOKER OPERATION

Operation

Cooking Guidelines

Best results will be obtained by the shelf positions in this guide. It is not necessary to preheat the oven but advisable for a range of dishes. The oven is capable of full temperature in 15-20 minutes.

Most cookery books give details of the shelf positions and gas mark settings for each recipe. If in doubt about a recipe you intend to use, study the recipe carefully then find a similar dish in our guide and use our shelf position and gas mark setting recommendation.

Shelf positions are from the top down. When roasting with aluminium foil care must be taken that the foil does not impair circulation or block the oven flue outlet.

Do's and don'ts

- Do** read the user instructions carefully before using the appliance for the first time.
- Do** allow the oven to heat before using for the first time, in order to expel any smells before the introduction of food.
- Do** clean the appliance regularly.
- Do** remove spills as soon as they occur.
- Do** always use oven gloves when removing food shelves and trays from the oven.
- Do** check that controls are in the off position when finished.
- Do** not allow children near the cooker when in use. Turn pan handles away from the front so that they cannot be caught accidentally.
- Do not** allow fats or oils to build up in the oven trays or base.
- Do not** use abrasive cleaners or powders that will scratch the surfaces of the appliance.
- Do not** under any circumstances use the oven as a space heater.
- Do not** put heavy objects onto open grill and oven doors.

Leaks

If a smell of gas becomes apparent, the supply should be turned off at the cylinder

IMMEDIATELY. Extinguish naked lights including cigarettes and pipes. Do not operate electrical switches. Open all doors and windows to disperse any gas escape. LPG gas is heavier than air; any escaping gas will therefore collect at a low level. The strong unpleasant smell of gas will enable the general area of the leak to be detected. Check that the gas is not escaping from an unlighted appliance. Never check for leaks with a naked flame, leak investigation should be carried out using a leak detector spray.

Maintenance & servicing

Important

- Shut off gas supply at isolating valve, switch off electric supply and ensure all parts are cool before cleaning or servicing
- All servicing must be carried out by an approved competent person.
- After each service the appliance must be checked for gas soundness
- This appliance must not be modified or adjusted unless authorised and carried out by the manufacturer or his representative. No parts other than those supplied by the manufacturer should be used on this appliance.
- If the supply cord is damaged, it must only be replaced by the manufacturer or his representative in order to avoid a hazard.

This appliance needs little maintenance other than cleaning. All parts should be cleaned using warm soapy water. Do not use abrasive cleaners, steel wool or cleansing powders.

When cleaning the burner ring it is essential to ensure that the holes do not become blocked. The control knobs are a push fit and can be removed for cleaning. They are interchangeable without affecting the sense of operation.

MICROWAVE

Microwave oven general user instructions

Always refer to the microwave operating instructions supplied with the vehicle

Precautions to avoid possible exposure to excessive microwave energy

- a. Do not attempt to operate this oven with the door open since open door operation can result in harmful exposure to microwave energy. It is important not to defeat or tamper with the safety interlocks.
- b. Do not place any objects between the oven front face of the door or allow soil or cleaner residue to accumulate on sealing surfaces.

⚠ WARNING:

- c. if the door or door seals are damaged, the oven must not be operated until it has been repaired by a competent person (1) door broken (2) hinges and latches (broken or loosened), (3) door seals and sealing surfaces.

⚠ WARNING:

- d. it is hazardous for anyone other than a competent person to carry out a service or repair operation.

⚠ WARNING:

- e. liquids or other foods must not be heated in sealed containers since they are liable to explode.

⚠ WARNING:

- f. only allow children to use the oven without supervision when adequate instruction has been given so that the child is able to use the oven in a safe way and understands the hazards of improper use.

Important safety guidance

⚠ WARNING: To prevent fire, burns, electric shock and other warnings: Listed below are, as with all appliances, certain rules to follow and safeguards to assure high performance from this oven:

Important instructions

1. Do not use the oven for any reason other than food preparation, such as for drying clothes, paper, or any other non food items or for sterilizing purposes.
2. Do not use the oven when empty, this could damage the oven.
3. Do not use the oven cavity for any type of storage, such as papers, cookbook, cookware etc.
4. Do not operate the oven without the glass tray in place. Be sure it is sitting properly on the rotating base.
5. Make sure you remove caps or lids prior to cooking when you cook food sealed in bottles.
6. Do not put foreign material between the oven surface and door. It could result in excessive leakage of microwave energy.
7. Do not use recycled paper products for cooking. They may contain impurities which could cause sparks and/or fires when used during cooking.
8. Do not pop popcorn unless popped in a microwave approved popcorn popper or unless it's commercially packaged and recommended especially for microwave ovens. Microwave popped corn produces a lower yield than conventional popping; there will be a number of unpopped kernels. Do not use oil unless specified by the manufacturer.
9. Do not cook any food surrounded by a membrane, such as egg yolks, potatoes, chicken livers, etc., without first piercing them several times with a fork.

MICROWAVE

10. Do not pop popcorn longer than the manufacturer's directions. (Popping time is generally below 3minutes). Longer cooking does not yield more popped corn it can cause scorching and fire. Also, the cooking tray can become too hot to handle or may break.
11. If smoke is observed, switch off or unplug the appliance and keep the door closed in order to stifle any flames.
12. When heating food in plastic or paper containers, keep an eye on the oven due to the possibility of ignition.
13. The contents of feeding bottles and baby food jars shall be stirred or shaken and the temperature checked before consumption, in order to avoid burns.
14. Always test the temperature of food or drink which has been heated in a microwave oven before you give it to somebody, especially to children or elderly people. This is important because things which have been heated in a microwave oven carry on getting hotter even though the microwave oven cooking has stopped.
15. Eggs in their shell and whole hard-boiled eggs should not be heated in microwave ovens since they may explode, even after microwave heating has ended.
16. Keep the waveguide cover clean at all times. Wipe the oven interior with a soft damp cloth after each use. If you leave grease or fat anywhere in the cavity it may overheat, smoke or even catch fire when next using the oven.
17. Never heat oil or fat for deep frying as you cannot control the temperature and doing so may lead to overheating and fire.
18. Liquids, such as water, coffee, or tea are able to be overheated beyond the boiling point without appearing to be boiling due to surface tension of the liquid. Visible bubbling or boiling when the container is removed from the microwave oven is not always present. **This could result in very hot liquid suddenly boiling over when a spoon or other utensil is inserted into the liquid.**

To reduce the risk of Injury to persons:

- a. Do not overheat the liquid.
- b. Stir the liquid both before and halfway through heating it.
- c. Do not use straight-sided containers with narrow necks.
- d. After heating, allow the container to stand in the microwave oven for a short time before removing the container
- e. Use extreme care when inserting a spoon or other utensil into the container.

Care of the microwave

1. Turn the oven off before cleaning
2. Keep the inside of the oven clean. When food spatters or spilled liquids adhere to oven walls, wipe with a damp cloth. Mild detergent may be used if the oven gets very dirty. The use of harsh detergent or abrasives is not recommended.
3. The outside oven surface should be cleaned with soap and water, rinsed and dried with a soft cloth. To prevent damage to the operating parts inside the oven, water should not be allowed to seep into the ventilation openings.
4. If the central panel becomes wet, clean with a soft dry cloth. Do not use harsh detergents or abrasives on Control Panel.
5. If steam accumulates inside or around the outside of the oven door, wipe with a soft cloth. This may occur when the microwave oven is operated under high humidity conditions and in no way indicates malfunction of the unit.
6. It is occasionally necessary to remove the glass tray for cleaning. Wash the tray in warm sudsy water or in a dishwasher.
7. The roller guide and oven cavity floor should be cleaned regular/y to avoid excessive noise. Simply wipe the bottom surface of the oven with mild detergent water or window cleaner and dry. The roller guide may be washed in mild sudsy water.

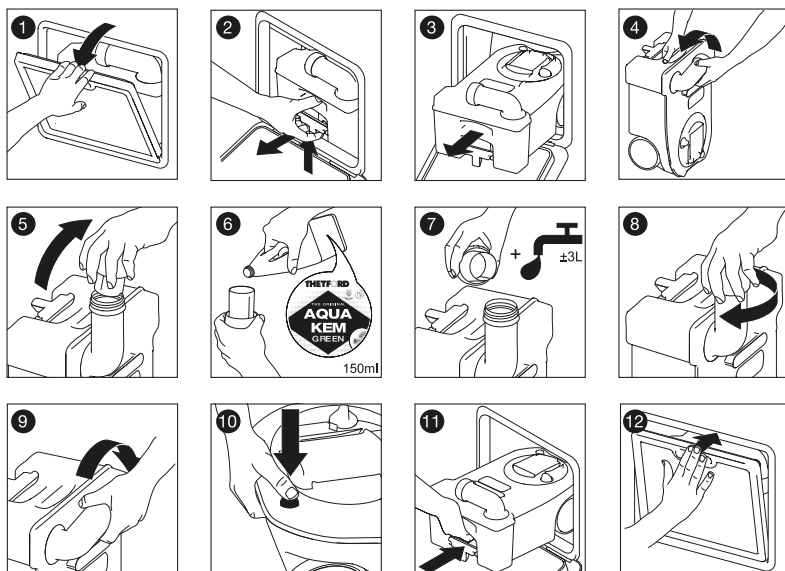
8. The oven should be cleaned regularly and any food deposits removed;
9. Failure to maintain the oven in a clean condition could lead to deterioration of the surface that could adversely affect the life of the appliance and possibly result in a hazardous situation.

CASSETTE TOILET

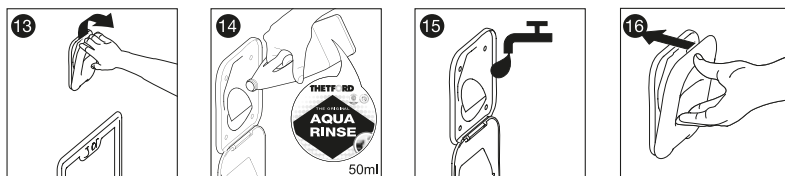
Thetford C260 Cassette Toilet

Quick Guide

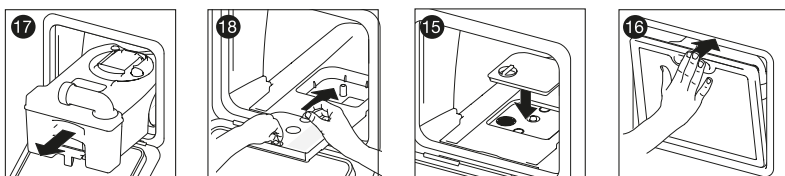
Preparing waste holding tank



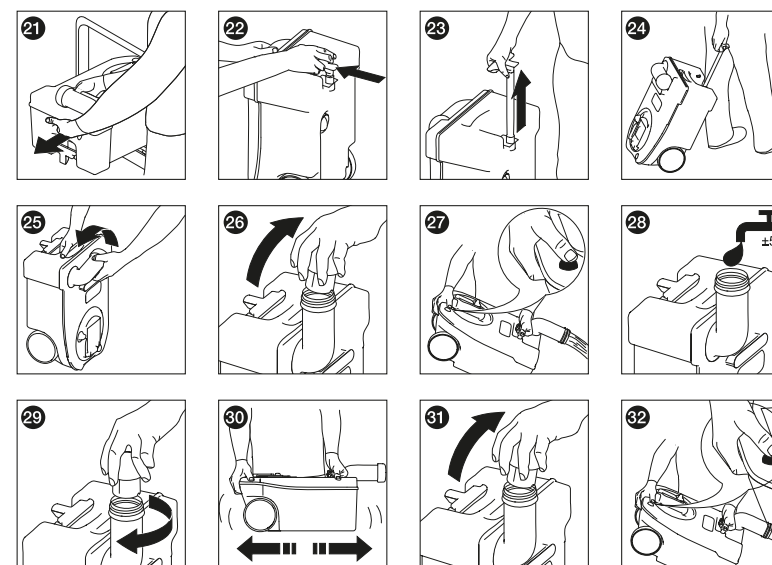
Preparing flush-water tank (only for C262-models)



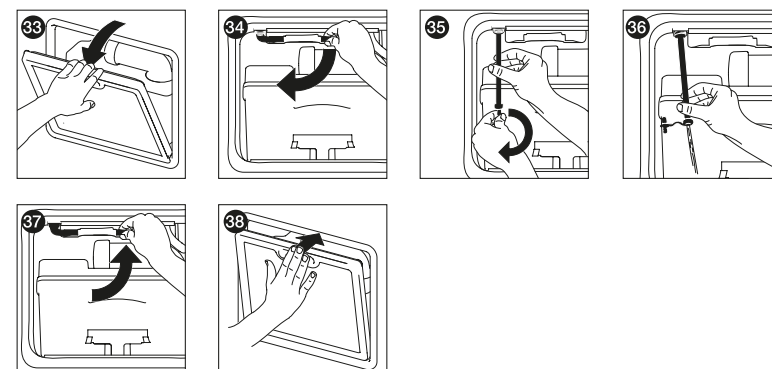
Preparing Electric Ventilator (if applicable)



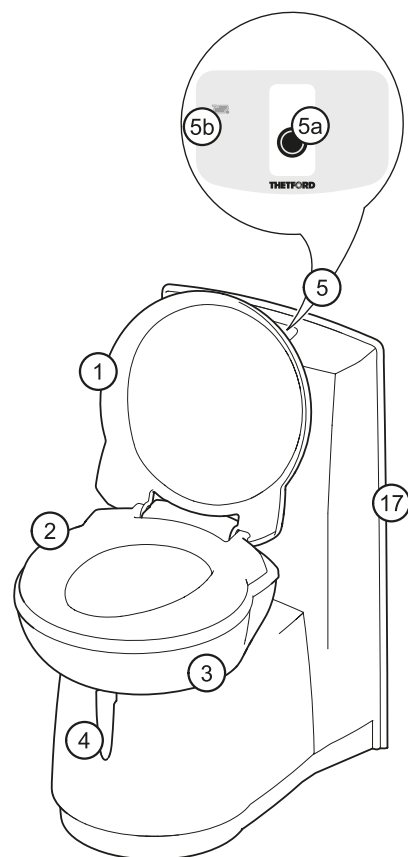
Emptying waste-holding tank



Emptying flush-water tank (only for C262-models)

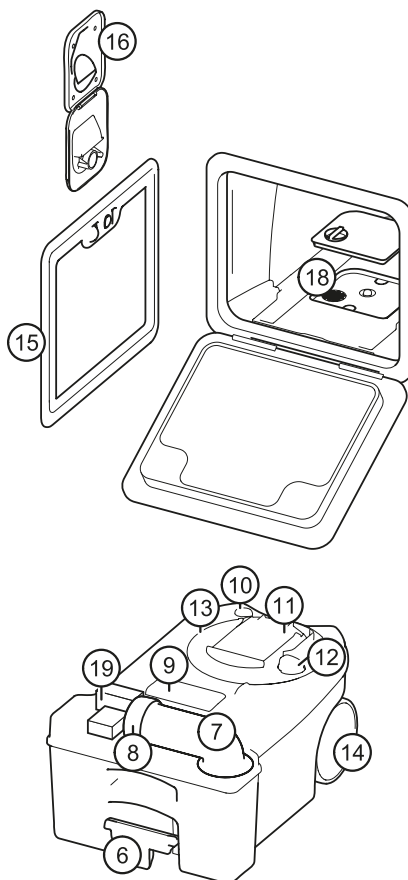


CASSETTE TOILET



Standard

1. Cover
2. Seat
3. Swivelling toilet bowl
4. Blade handle to open/close blade
5. Control panel (position is different on C263 models)
- 5a. Flush button
- 5b. Waste holding tank level indication (1 level or 3 levels; dependent on model)
6. Pull handle



7. Pour out spout
8. Cap with measuring cup
9. Automatic pressure release vent
10. Vent button
11. Sliding cover
12. Blade opener
13. Waste holding tank mechanism
14. Wheel
15. Service door 3

Options

16. Waterfill door (only for C262 models)
17. Console with flush water tank (only for C262 models)
18. Filter for electric ventilator
19. Location waste pump out system

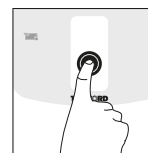
Introduction

This Thetford Cassette Toilet is a high quality product. It is user-friendly, meets high quality standards and gives you all the convenience of home.

Before operating and using this toilet we advise you to read the manual completely. Keep this manual in a safe place for future reference.

For the latest version of the manual please visit www.thetford.eu

Possible toilet options



Some toilets are fitted with extra options. To check which options are available, press the flush button on the control panel.

The following symbols can light up:

- **Waste pump out system** - transfers waste from the waste holding tank into the vehicle's central waste tank.
- **Electric blade** - electrically opens or close the blade.
- **Electric ventilator** - draws unpleasant odours away from the waste tank to the outside of the vehicle.

You will find additional to these options in the grey text boxes. Thoroughly read the applicable instructions.

Preparing for use

This cassette toilet has a waste holding tank of 17.5L. A C262 model also has its own 8L flush water tank. Before using your toilet, it is vital that you add toilet additive to these tanks. Check the correct dosage on the additive package. Then add ±3L of water to the waste

holding tank. Fill the flush water tank of a C262 model to the top.

Electric ventilator (if applicable)

Open the service door and remove the waste holding tank. Then remove the filter housing cover and place the new filter into the filter housing. Replace the cover and return the waste holding tank back to original position.

⚠ WARNING: Never add toilet additives directly via the blade as this could damage the lip seal of the waste holding tank. Only fill the waste holding tank via the pour out spout.

⚠ WARNING: Never use force if you cannot get the waste holding tank back into place easily. If blockage occurs, always check if the blade handle is in the closed position.

See Quick guide diagrams 1-20 for visual reference. To depressurise the waste holding tank, press the vent button before placing the tank back in its position.

Thetford offers a pleasantly scented toilet fluid for the flush water tank (Aqua Rinse) and a variety of waste holding tank products (Aqua Kem Blue, Aqua Kem Green, Aqua Kem Natural, Aqua Kem Sachets).

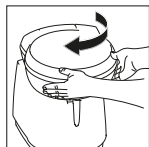
Aqua Rinse keeps the flush water fresh, ensures a smooth flush and leaves a protective layer. All products for the waste holding tank suppress unpleasant smells, stimulate the breakdown of waste, reduce the formation of gas, protect moving parts and help to the waste holding tank fresh and clean. For the differences between the distinguishing qualities of each waste holding tank product please visit www.thetford.eu

The range of available Toilet Care products may vary for each country.

CASSETTE TOILET

Use of your toilet

Turning the bowl



You can turn this bowl to a desired position (max. $\pm 90^\circ\text{C}$). Close the cover and use both hands to rotate the bowl as illustrated.

Opening the blade

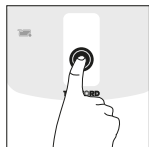


The toilet can be used with the blade open or closed. To open the blade, slide the blade sideways as illustrated. Make sure you always close the blade completely after use.

Electric blade (if applicable)

Press the flush button to activate the control panel. Then push the Electric blade button. The blade will open or close electrically.

Flushing the toilet



Press the flush button once to activate the control panel. Then press the flush button for several seconds to flush the toilet.

Electric ventilator (if applicable)

By activating the control panel, the Electric ventilator start automatically. The button will flash to indicate this function is active. To stop the Electric ventilator, press the button. Press the button again to restore the Electric ventilator. To optimise its function, activate the Electric ventilator before use of your toilet.

Note: Even without an own flush water tank you can still use Aqua Rinse for a smooth and fresh lavender scented flush. Simply spray Aqua Rinse with a spray can evenly into the toilet bowl before use.

Note: Ordinary toilet paper can cause clogging. Use Aqua Soft toilet paper instead. This toilet paper is super soft, dissolves quickly, prevents clogging and makes it easier to empty the waste holding tank.

Level indication

You can check whether your waste holding tank has a 1 level or a 3 level indication. Make sure the tank is empty and place it properly. Then activate the control panel. If no level indication light lights up, your toilet has a 1 level indication. It will only indicate a full tank. If a green level indication light immediately lights up, your toilet has a 3 level indication. It will indicate empty, half full and full.

Emptying the tank

Waste holding tank

When the red light of the level indicator on the control panel lights up, you need to empty the waste holding tank. Remove the tank via the service door. Then take it to an authorised waste disposal point. Empty the waste holding tank via the pour out spout.

Waste pump out system (if applicable)

By activating the control panel, this button automatically lights up. Press the button to empty the waste holding tank into the vehicle's central waste tank. The button flashes while the waste is being pumped and stops flashing when all waste has been transferred. ($\pm 1.5\text{L}$ of waste is left). If the central waste tank is too full (only measured when this tank has a level indicator), the button flashes rapidly and no pump out is possible until you have emptied the central waste tank.

See 'Quick guide' diagrams 21-32 for visual reference. If you want to continue using your toilet after emptying, prepare the waste holding tank again.

Note: Our 'green' products Aqua Kem Green, Aqua Kem Natural and Aqua Rinse (test ISO 11734) are absolutely safe to empty into a septic tank or small biological systems on camping sites.

⚠ WARNING: Please avoid travel with a waste holding tank that is more than 3/4 full. This may cause leakage through the venting system.

Flush water tank (only for C262 models)

The flush water tank has a capacity of 8L. Only empty the flush water tank completely if you don't expect to use your toilet for a long (winter) period. Place a sufficiently large bowl under the drain tube and catch the remaining water. Empty this bowl at an authorised waste disposal point.

See 'Quick guide' diagrams 33-38 for visual reference.

⚠ WARNING: To prevent water damage to your caravan, ensure you don't travel with a full flush water tank or with water in the bowl.

Cleaning

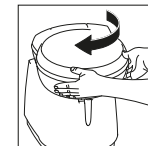
Just like your toilet at home, it is also important to clean this cassette toilet regularly. You will prevent limescale and ensure optimal hygiene. Clean the inside of the bowl with toilet bowl cleaner and a soft brush and use bathroom cleaner for the outside of the toilet.

⚠ WARNING: Never use the household cleaners to clean your toilet. These may cause permanent damage to the seals and other toilet components.

Waste pump out system (if applicable)

Fill the emptied waste holding tank with water and place the tank back. Then activate the control panel. Press the waste pump out system button to pump the water through the system. Do this once every 3 weeks.

Remove seat and cover



To clean your toilet thoroughly, remove the seat and cover. First push the seat and cover together to the right then lift them up.

Winter use

You can use your toilet as normal in cold weather as long as the toilet is situated in a heated location. If this is not the case, and there is a risk of frost, we advise not to use your toilet. Make sure you completely empty the waste holding tank. For a C262 model also empty the flush water tank.

Note: Aqua Kem Sachets are particularly suitable for winter camping as the sachets are filled with powder. They completely dissolve in water, are easy to dose and economical in use.

Maintenance

To prolong the life span of your toilet, maintain your toilet regularly. Use cassette tank cleaner 2 to 3 times a year on the waste holding tank.

It safely removes stubborn limescale on the inside of the tank. When seals become dry, use seal lubricant to keep the seals soft and pliable. It has been specially developed for mobile toilets and is absolutely safe to use.

⚠ WARNING: Never use Vaseline or vegetable oil to lubricate the seals as these may cause leakage to your waste holding tank.

Waste pump out system (if applicable)

To ensure optimal functionality, maintain the waste holding tank regularly. Fill the waste holding tank with water and rinse it. Then use Cassette Tank Cleaner. Do this every 6 weeks when on holiday.

CASSETTE TOILET

Electric Ventilator (if applicable)

After approximately 4 weeks of use, the filter loses its absorption power. Remove the filter housing cover and place the new filter into the new housing.

Storage

If you don't expect to use your toilet for a long period, you have to thoroughly empty, clean and dry the whole toilet. Also empty the flush water tank of a C262 model. This is also a good moment to maintain your toilet. During storage we advise leaving the blade open to prevent damage to the blade and to loosen the cap of the pour out spout to ventilate the waste holding tank.

Electric ventilator (if applicable)

Remove the filter of the filter housing.

Disposal

Your product has been designed and manufactured with high quality material and components, which can be recycled and reused. When your toilet has reached the end of its life, dispose of the product according to the local rules. Do not use the toilet with the normal household waste. The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.

Questions?

If you require further information or have any questions about your toilet, please visit our website www.thetford.eu. If you still have questions, contact the Customer Service Department in your country or your holiday location.

For correct and efficient support, please ensure all relevant product type information is available.

Spare parts

Original Thetford spare parts are available through your own dealer or an authorised Thetford Service Centre.

FAQs

What should I do in case of a defect on my Thetford toilet? Contact your dealer where you bought your vehicle, or if you are on holiday, contact an authorised Thetford Service Centre.

A red light on the control panel flashes, what should I do? Check if the waste holding tank is present or positioned properly.

I cannot move my waste holding tank. Check if the blade of your toilet is completely closed.

What should I do when the electric blade doesn't function? Manually open or close the blade by sliding the small handle under the toilet bowl sideways.

What should I do if the blade is blocked? Loosen the cap with measuring cap from the pour out spout and try again.

Does the toilet have a fuse? Yes, the toilet has a maintenance free self-resetting fuse.

Warranty

Thetford BV offers the end users of its products a three-year guarantee. In the case of malfunction within the warranty period, Thetford will replace or repair the product at its discretion. In this case, the costs of replacement, labour costs for the replacement of defective components and/or the costs of the parts themselves will be paid by Thetford.

1. To make a claim under this guarantee, the user must take the product to his dealer or an authorised Thetford Service Centre (www.thetford.eu). The claim will be assessed there.

2. Components replaced during repair under guarantee become the property of Thetford.
3. This warranty does not prejudice current consumer protection laws.
4. This warranty is not valid in the case of products that are for, or are used for, commercial purposes.

Guarantee claims falling into one of the following categories will not be accepted:

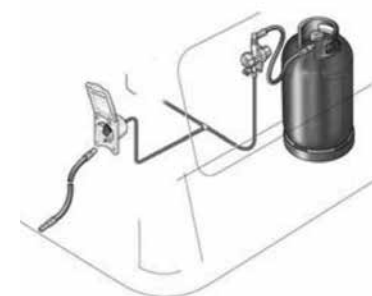
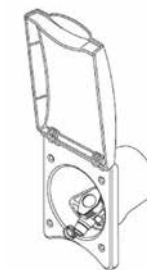
- the product has been improperly used or the instructions in the manual have been followed (for example incorrect use of additives;
 - alterations have been made to the product;
 - the product has been repaired by an unauthorised Thetford Service Centre;
 - the product code or serial ID has been changed;
 - the product has been damaged by circumstances outside the normal use of the product.
5. Not using Thetford products to care for your Thetford toilet could create some damage, which would not be covered by this warranty.

Thetford is not liable for any loss and/or damage caused directly or indirectly by use of the toilet.

Caravans with external barbeque point

Models equipped with an external barbeque point can be used to power any gas appliance suitable for the gas used in the caravan, at the working pressure shown on the label in the barbeque outlet box. Please note when using the outlet that the fitted regulator will allow a maximum of 1.5kg per hour of gas to be taken from the gas bottle. Therefore the consumption of gas from both the appliances within the caravan and the appliance connected to the barbeque point cannot exceed a total of 1.5kg per hour at any one time. If you are in any doubt please consult your dealer for advice. To use point proceed as follows:

EXTERNAL BBQ POINT



When external gas equipment is being connected, the operating pressure of the gas supply of 30 or 50 mbar must correspond with the operating pressure of the equipment that is being connected (see data plate).

The plug-in connection can only be made if the quick acting valve is closed. The safety locking mechanism can be released by sliding back the coupling sleeve.

EXTERNAL SHOWER POINT / BATTERY BOX

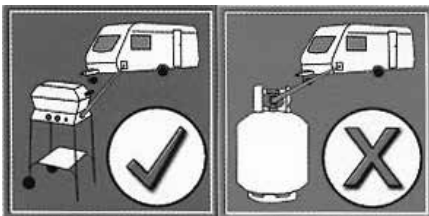
The coupling K-valve is being designed such that the quick acting valve can only be opened if the connection is being made via the plug-in connection. The connection is made by inserting the plug-in connection into the safety coupling.

This operation can be carried out using one hand. After uncoupling the equipment, seal off the valve opening using the protection seal.

Note: The external gas socket is only suitable for removing gas, not for feeding gas into the gas system.

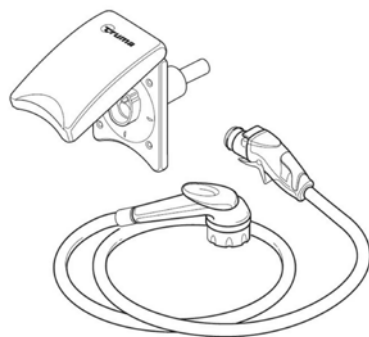
WARNING: Care should be taken when using the external barbecue point. Never barbecue next to an awning or tent.

WARNING: The caravan barbecue point should only be used as an outlet point for gas, never connect a gas bottle direct to the outlet.



External shower point

The external shower point, is supplied with a separate shower head and hose assembly. To connect the shower, simply align the plug with the socket and push into position. To remove, pull the lower trigger and pull the plug from the socket.

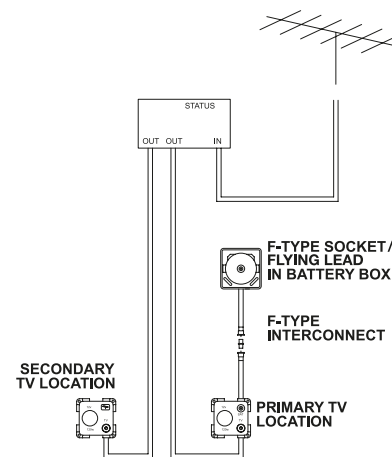


TV INLET / CD/MP3 TUNER

Caravans with TV inlet in battery box

Models equipped with TV points in the battery box have the facility to take an external signal and supply that signal to TV points within the caravan.

Caravans equipped in this way feature a direct link from the connection point in the battery box, to an auxiliary connection point at the primary TV position within the caravan.



The direct link can be used to:

1. Supply an external signal (caravan site TV feed) to the primary TV position
 - a. Connect the socket in the battery box (on flying lead depending on model), with a suitable lead, to the appropriate socket on the caravan site supply post. As the connector in the battery box is a screw on 'F-type' connector, an adaptor to convert this to a 'push-on' co-ax connector, which may be required, has been supplied with your caravan.
 - b. Locate the primary TV position within the caravan. At the 12V, TV and SAT socket, connect your TV to the output from the socket marked SAT with a suitable lead.
2. Connect an external satellite dish to a decoder within the caravan. (The direct link uses F-type interconnects throughout to

allow the decoder and dish to communicate correctly)

- a. Connect the dish to the socket (or flying lead) in the battery box with a suitable lead. The F-type to co-ax adaptor should not be used.
 - b. Connect the dish input connection on the decoder to the 'SAT' socket on the 12V, TV and SAT socket located in the primary TV location.
3. Supply a signal from within the caravan to the exterior of the caravan
 - a. Connect the output from your VCR, DVD player or other device to the SAT connection on the 12V, TV and SAT socket at the primary TV position.
 - b. Connect your receiving device (TV or similar) to the socket in the battery box with a suitable lead.

As can be seen from the simplified schematic, when multiple TV locations are present in a van, all of these receive signals from the TV aerial connection box. Using adaptors and link cables which are readily available, it may be possible to re-direct a signal from the 'SAT' connection at the primary TV location, up to the aerial connection box to be then distributed to other TV positions within the caravan. Please remember that as the number of connections increases the quality of the signal reduces.

Supplier fitted / supplied entertainment equipment

Audio-visual equipment may have been fitted by your dealer, or supplied with the caravan, depending on the specification of the caravan. Although not specific, below are details of the types of equipment which would be fitted as appropriate to the specification of the caravan:

CD/MP3/tuner with auxiliary input

Provision has been made in the furniture for your dealer to install a provided head unit similar in appearance to that fitted in the dashboard of a car. The unit operates as a CD player and FM/AM radio. In addition MP3 files stored on a CD can be read and played by the unit. Speakers mounted in the front locker of

STATUS 550 DIRECTIONAL TV AND FM RADIO ANTENNA

the caravan are connected to this head unit for a stereo sound output. A retractable AM/FM aerial on the side of the caravan, enables reception of radio stations.

An auxiliary input on the front of the unit allows a separate MP3 player or similar to be connected from that player's headphone socket. The can be positioned in the locker and connected directly to the front of the head unit, using an appropriate lead (not supplied), or alternatively can be connected at a socket on the binnacle at the front of the caravan, again using an appropriate lead.

To use the connection on the binnacle, plug the flying lead found in the locker below the head unit, into the 'Aux In' socket on the front of that head unit. At the binnacle, locate the 3.5mm jack socket near the centre of the binnacle. Using an appropriate lead, (not supplied) connect your player's headphone socket to the jack socket on the binnacle, to relay sound up to the head unit. Depending on the specification of the head unit, 'Aux in' may need to be selected as an audio source on the head unit, and the volume levels of both the head unit and the player may have to be adjusted to find an appropriate sound level.

STATUS 550 DIRECTIONAL TV AND FM RADIO ANTENNA

Firstly determine the approximate location of the nearest transmitter and whether the signals are horizontally or vertically polarized. For assistance ask your site operator or check antennas in the vicinity

1. Loosen the Mast Locking Collar and Wall Bracket and raise the antenna. Turn the mast to direct the Antenna towards the TV transmitter.

The RED spot on the bottom of the mast indicates the front of the Antenna.

2. When receiving vertically polarized signals, rotate the winder anti-clockwise to cant the antenna through 90°. The red / green indicator, if present, indicates vertical or horizontal orientation.

Note: Direction assumes user is looking down on roof.

Note: DO NOT over tighten or use undue force on the winder.

3. Switch ON the Power Pack and the RED LED will illuminate.
4. Check the gain control switch is set to normal – NML.
5. Tune your television to the strongest signal. You may need to adjust the direction of the mast to achieve the best quality picture.
6. Secure by tightening the Mast Locking Collar and Wall Bracket

Removing the antenna

A permanently fitted Status can be easily removed leaving only the Mounting Foot and rubber gaiter.

1. Unplug the antenna from the Power Pack.
2. Loosen the Mast Locking Collar and Wall Bracket and lift off whilst feeding out the cable.
3. Push the Blanking Cap supplied into place.

⚠ WARNING: The Blanking Cap is a temporary seal and is not for long term use.

⚠ WARNING: Always ensure the aerial is lowered before driving off.

BEDDING

Bedding configurations

Sleeping bags and duvets can be compressed into small spaces and can be ready to use in minutes.



Fig. A



Fig. B

Lower single beds assembly (Figs. A & B)

1. Lower dinette table and place between the recess in both seats.
2. Arrange seat cushions as appropriate.

Double bed assembly (Fig. C)

1. Grip front of slatted bed and walk backwards until bed is fully extended.
2. Arrange seat cushions as appropriate.



Fig. C

Lift-up bunks

1. Grasp the bunk and pull carefully upwards and towards you. (Fig. D)
2. The bunk is designed to automatically move into the correct position. (Fig. E)
3. Where a bed board is fitted, unfold and make sure it is secured by press studs when lifted into position. (The bed board is required to protect both the occupant and the window from damage during use of the bunk.) (Fig. F)
4. Locate safety boards. (Fig. G)
5. Arrange seat cushions as appropriate. (Fig. G)

Bunks are designed to carry a child to a maximum of 70kg (11 stone)

⚠ WARNING: use the upper bunks for sleeping only, with the provided protection against fall out in position.

⚠ WARNING: Care shall be taken against the risk of fall out when the upper bunks are in use by children especially under 6 years of age, these bunks are not suitable for use by infants without supervision.

BEDDING / BLINDS



Fig. D



Fig. E

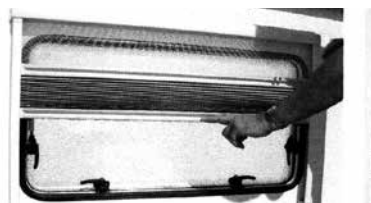


Fig. F



Fig. G

Operating instructions for softrollo blinds



Hold the operating aluminium bar in the middle and raise or lower the blind and flyscreen independently, operating together will require excessive force in operation.

Care instructions: Clean the blind only with a damp sponge. Clean on a regular basis to avoid dirt particle build up as this can damage the blind material.

Use only water or with mild suds or a vacuum cleaner.

In order to avoid material fatigue, do not leave the flynet closed for a long time.

Maintenance

If operation of the soft Rollo blind is exceptionally stiff, it is possible to spray the guide - legs (left and right) with a Teflon - spray. This will ease both the operation of the blind and avoid any interruption/malfunction from deposits in the guide legs which may affect the operation.

Doorscreen

When drawing or releasing the doorscreen, care should be taken to always pull the doorscreen close to the centre. It is not advisable to pull close to the top or bottom as this will cause snagging and uneven running.



⚠ WARNING: When opening or releasing the doorscreen, care must be taken to avoid trapping fingers.

The door flynet operates independently of the door by sliding across the door threshold.

Roof lights

When opening the roof lights, care must be taken to release the locking mechanism as the unit is raised.

Roof lights must be fully closed when towing.

Roof lights provide varying levels of fixed ventilation.

Exterior Door Key

⚠ WARNING: Care should be taken not to leave the exterior door key in the door when unlocking the door. The key may result in damage in the vehicle side if the door is released with the key still in the lock.

ROOF LIGHTS / EXTERIOR DOOR / WINDOWS

Windows

To open all window types turn the internal handles through 90 degrees and push open the window.

Windows / Roller Blind Advice

In case of prolonged exposure to the sun roller blinds should not be completely closed as this could cause excessive heat concentration at the top of the window, due to characteristics of the glazing material the windows could be adversely affected.

Roller blinds that shade from the bottom upwards it is necessary to leave a gap of a few centimetres open at the top, this way the heat between window and blind can escape. A fly screen does not cause an obstruction.

Roller blinds that shade from the top downwards must be kept completely open, or be opened regularly to allow the heat to escape.

Keeping the windows in ventilation position allows heat to escape.

Never fully close a roller blind system when storing the vehicle or when not in use for longer periods!

Therefore for optimal window life it is recommended:-

- Blinds starting at the bottom of the window a gap should be provided for ventilation at the top with the window in its ventilation position.
- For vehicles containing blinds from the top downwards or with other types of reflective blinds / curtains, please make sure that these blinds are also ventilated or not fully closed.

Ensure that all windows and roof vents are closed when the vehicle travels on the road.

MINI HEKI ROOFLIGHT

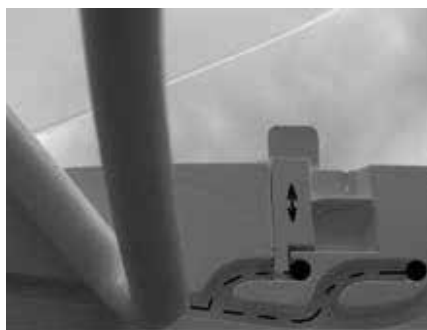
Mini Heki rooflight



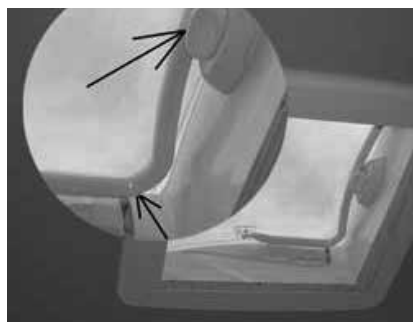
To open depress the button (Fig. A).



Pull the bar down and forwards (Fig. B).

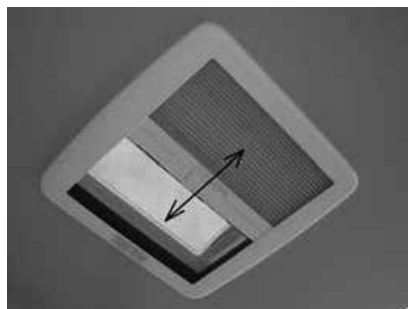


By pushing the bar in to the marked rest positions (Fig. C).



Two extra opening angles apart from the one in which the dome is fully opened can be chosen. The intermediate position can be fixed with a slide marked with the arrows. Care should be taken to ensure the dome is closed and locked for transit with the bar located

behind the locking button (Fig. D).



The blind flynet operate together and engage via the clips in the bar, then slide to gain the desired blackout or ventilation (Fig. E).

Heki care instructions

Clean the blind only with a damp sponge. Clean on a regular basis to avoid dust/ dirt particle build up as this can damage the blind material. Use only water or with mild suds or a vacuum cleaner.

In order to avoid material fatigue, do not leave the flynet closed for a long time.

MIDI HEKI ROOFLIGHT

Midi-Heki rooflight

Opening the Dome



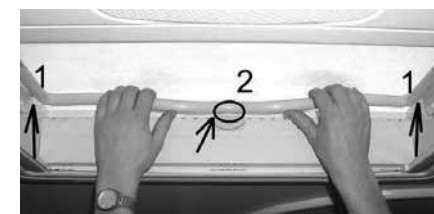
Intermediate position for the dome

By pushing the bar into the marked rest position, two extra opening angles, apart from the one in which the dome is fully opened, can be chosen.



Closing the Dome (drive and rest position)

Push the bar with both hands on the right and the left side in such a way that the hook bolt (1) the dome on the left and the right side and the bar lies on the push button (2). Check if the dome is locked.



MIDI HEKI ROOFLIGHT

Safety precautions:

- Repairs should be carried out only by trained personnel.
- Inform an approved dealer in case of defects and malfunctions.
- Before starting off, check the rooflight for damage in the dome (tension cracks) and the opening mechanism which could arise owing to, for example, branches and other natural causes.
- Do not step on the dome.
- Close the rooflight before starting off (check whether it is locked).
- Do not leave the vehicle with the rooflight open (danger of burglary).
- Do not open in strong wind or rain.
- Before opening the dome remove snow, ice, dirt etc. from the dome.
- Malfunctions are to be repaired by an approved dealer at once.
- Do not use caustic detergents (danger of tension cracks in the dome).
- Before setting off close the dome, check the locking mechanism and open the blinds.

Care instructions:

- Clean the dome with the Seitz Acrylic Cleaner.
- Opaque spots and light scratches on the dome can be removed with the Seitz Acrylic Polish and the Seitz Special Polishing cloth.
- Use talcum powder regularly (4 times yearly) to care for the rubber seals supplied with versions without permanent ventilation.
- Clean the blinds only with water and mild soap suds.

The guarantee becomes null and void if the care and safety instructions are not followed.

HEKI ROOFLIGHT

Bessacarr Cameo Models**Heki-2 roof light (Seitz) (Cameo)**

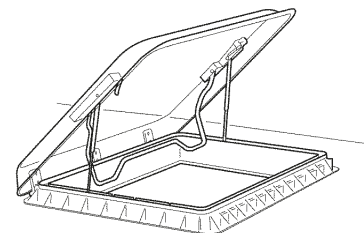
The lift/tilt roof light can be set in 3 positions by means of pneumatic springs.

Position 1 lifts the pane 12mm without allowing rain to enter the caravan.

Position 2 sets the pane to a 150mm opening and locks with a bar.

Position 3 opens the pane through 55°.

A fully adjustable flyscreen and black-out screen are built into the inner frame. The flyscreen can be drawn independently and the black-out screen is variable for partial or full black-out.



Forced ventilation functions via a brush lined duct instead of a ventilated pane.

A cover hood can be fitted for winter protection.


Heki-2 roof lights provide 13,200mm² of fixed ventilation.


Heki 4 Remote Control (coded)


The remote control is ready for use after inlaying the two batteries. It functions from a max distance of approx. 1.5 m from the Heki rooflight (the remote control and control system have a non-volatile memory). The red lamp is blinking when starting current again after an interruption of the power supply to the Heki rooflight. By pressing a button of the remote control (e.g. lighting) in the direction of the red lamp (picture A) this red lamp goes out. The control lamp is switched off when the glazing panel is closed. If the glazing panel is not closed completely the control lamp is

lighting. In case of dysfunction see point 11 of the installation instructions.

**Opening/closing the acrylic dome**

Hold the remote control in the direction of the red control lamp. (Fig. A) By short pressing the button 1 , the glass dome will be opened up to 70 degrees.

Should an opening up to 70 degrees not be required, this could be interrupted by pressing the button 1  once again.

Press the button 2  permanently for closing the roof until the desired position is reached. The control lamp is switching off when the glazing panel is completely locked. Check the locking through lifting the glazing panel!

⚠ WARNING

Do not operate the remote control when there are persons near the HEKI rooflight.

Do not stop in the vicinity of the open acrylic dome.

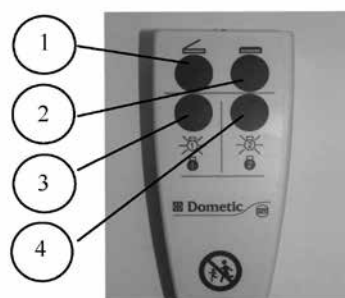
Do not climb on the roof through the open acrylic dome.

The rooflight closes automatically through erroneous contact with the rain sensor, as well as contact with humidity (fog, rain, condensation). Before setting off close the acrylic dome and open the blinds.

ROOFLIGHT BLIND AND FLYNET

Lighting (optional)

Remote control buttons: Roof open, roof closed, lamp 1 switched on/off, lamp 2 switched on/off. Hold the remote control in the direction of the red control lamp of the HEKI4 and press once both button 3 and button 4. Now both lamps should be lit. By pressing once again button 3 and button 4, the lamps will be switched off. Opening/closing the acrylic dome Hold the remote control in the direction of the red control lamp.



1 = open roof 2 = close roof
3 = light 1 on/off 4 = light 2 on/off

By short pressing the button 1, the glass dome will be opened up to 70 degrees. Should an opening up to 70 degrees not be required, this could be interrupted by pressing the button 1 once again. Press the button 2 permanently for closing the roof until the desired position is reached. The control lamp is switching off when the glazing panel is completely locked.

Check the locking through lifting the glazing panel!

Rain sensor

The HEKI4 rooflight is equipped with an automatic rain sensor which completely closes the rooflight. By pressing the button (open/closed), this procedure can be interrupted.

Dometic Seitz GmbH

Opening/closing the blind and fly-net

Opening

Push the united end rods until the blind is fully extended. (photo B). Press the catch and guide the blind with the other hand back to its original position in the frame. (do not let the blind recoil)

Closing

Pull the end rod (without the catch / blind) from the recessed part and engage it with the opposite end rod with the catch. (photo B).



Adjusting

Push the united rods until the desired setting is reached. (photo C)

Attention: When there is strong sunshine, the flynet should generally be used to create shade. By day the blind should be closed up to a maximum of 2/3 otherwise this might cause trapped heat which could damage plastic components of the HEKI.



ROOFLIGHT BLIND AND FLYNET

⚠ EMERGENCY PROCEDURE

Closing the acrylic dome Should the closure of the acrylic dome not be possible despite checking point 11 in the mounting instructions, a manual closure is possible as follows:

- 1) Switch off the power supply from the vehicle to the HEKI
- 2) Remove the ventilation grilles and the covers for the lights.
- 3) Disconnect the 12V plug and power supply from the vehicle.
- 4) Remove the screws from the inner frame and pull down the inner frame.
- 5) Remove the emergency crank (photo 5a, which should be visible after the removal of the inner

frame from the outer one) from its housing, insert it in the octagonal shaft of the driving mechanism

and turn. Please note - once the acrylic dome is closed turn the crank a further 2-3 complete turns to

lock the dome in position.

- 6) Check whether the rooflight is completely closed! (by trying to push the acrylic dome upwards with your hand).

Safety precautions:

- repairs should be carried out only by trained personnel
- inform an approved dealer in case of defects and malfunctions
- before starting off, check the rooflight for damage in the acrylic dome (tension cracks) and the opening mechanism which could arise owing to, for example, branches and other natural causes.
- do not step on the acrylic dome
- close the rooflight before starting off (check whether it is locked)
- do not leave the vehicle with the rooflight open (danger of burglary)
- do not open in strong wind or rain
- before opening, remove snow, ice, dirt, etc. from the acrylic dome
- malfunctions are to be repaired by an approved dealer at once
- do not use caustic detergents (danger of tension cracks in the acrylic dome)
- before setting off close the acrylic dome and open the blinds
- function of the ventilation (optional) is only ensured if the space between roof and glazing dome is free of dirt and snow.

Care instructions:

- clean the acrylic dome with the Seitz acrylic cleaner
 - opaque spots and light scratches on the acrylic dome can be removed with the Seitz Acrylic Polish and the Seitz Special Polishing cloth:
 - Use talcum powder regularly (4 times yearly) to care for the rubber seals
 - clean the blinds only with water and mild soap suds
- The guarantee becomes null and void if the care and safety instructions are not followed.

DOORS / TABLES

Care of laminate tops, tables, furniture and doors

Do not use abrasives, chemically treated cloths or aggressive detergents as these may cause damage

Do not place hot objects on laminated surfaces i.e. tops, tables. Any temperatures 70°C and over may cause permanent damage.

Clean worktop surfaces, furniture and door fascias with a soft, slightly damp cloth, dry off with a soft cloth.

Doors

In order to provide customers with the latest designs of door furniture it is possible, due to the use of natural wood, that warping may occur. This should not detract from the correct functioning of items fitted in the caravan.

Information

During the normal travelling vehicle vibration and flexing may cause some of the furniture doors to become out of alignment.

For your convenience many hinges are adjustable.

Tables

Slide the top of the chest of drawers forward to form a convenient table. Lift the rear portion to slide the top away. (Fig. A)



⚠ WARNING: When erecting the free standing table, be careful to avoid trapping fingers.

Table storage

To avoid damage care must be taken when removing tables from their stored position.

Where two tables are stored together in a low level storage area care should be taken to remove the table positioned opposite the hinged edge first.

SHOWER / AWNINGS /
SUNROOF / ROOF

Specific awning sizes must be confirmed with the dealer or awning manufacturer prior to purchase.

Tables stored in the table storage compartment must be securely clipped into place whilst in transit.

Shower Use

- Care should be taken as water may become hot temporarily when switched on until it mixes and regulates.
- Small children should be supervised at all times when using the shower.
- We recommend unfastening the shower head before travelling and storing safely to prevent it becoming detached whilst towing.

Fixing of awnings

In order to avoid puncturing the outer skin of the caravan wall, it is recommended that awning poles are fixed to your caravan using load spreading eyelet pads or rubber sucker pads.

Attaching awning brackets and associated fixings to your caravan by using mechanical methods which pierce the outer skin of the caravan wall can allow water ingress which will invalidate the product warranty.

Important:

Care must be taken when using an awning as poles and suckers can cause damage to exterior side panels.

Awnings should be taken down in strong winds to protect the side panels from cosmetic damage and dents from the awning poles.

Note: Awnings should be kept ventilated when discharging products of combustion exhaust into them.

Awning Sizes

Due to the various awning types and sizes the awning sizes provided in the Service and Warranty Handbook are for guidance only.

Full details and sizes of awnings (A-A dimensions) for your caravan can be found in your Technical Handbook.

Colour reference

If a customer requires touch-up paint or a respray of a caravan, the correct colour code for all white components is Fiat White 249.

Please be aware that colours can fade over time, and therefore, if the vehicle is more than a few years old, it is suggested a colour match be obtained.

Front locker and sunroof

The front locker is made from ABS thermoformed plastics, which are easy clean textured surfaces. To ensure long life and prevent damage you must not use any cleaning materials including solvents or aggressive cleaning materials. We recommend the use of warm soapy water, applied with a damp cloth.

Where a front sunroof is fitted, directly above the front windows, it is recommended that the blind be left open during use (or storage) in high temperatures or direct sunlight, to avoid a build-up of heat within this non-opening window.

Bonded Roof

The roof of your caravan is made from a bonded construction. Care should be taken when cleaning the roof not to walk directly on the roof. If access to the roof is required the weight of a person should be spread across a larger area using a spreader board and extreme care should be taken when working at heights.

Step on hitch cover

Where a step on hitch cover is fitted, customers are reminded only to stand on the designated areas, identified with black anti-slip matting. Stepping elsewhere on the hitch cover may result in damage to the hitch cover.

Models without a step on hitch cover are not suitable for standing on and failure to follow these simple instructions may result in premature failure or cracking which will not be covered by any guarantees (including extended warranties).

Cycle racks

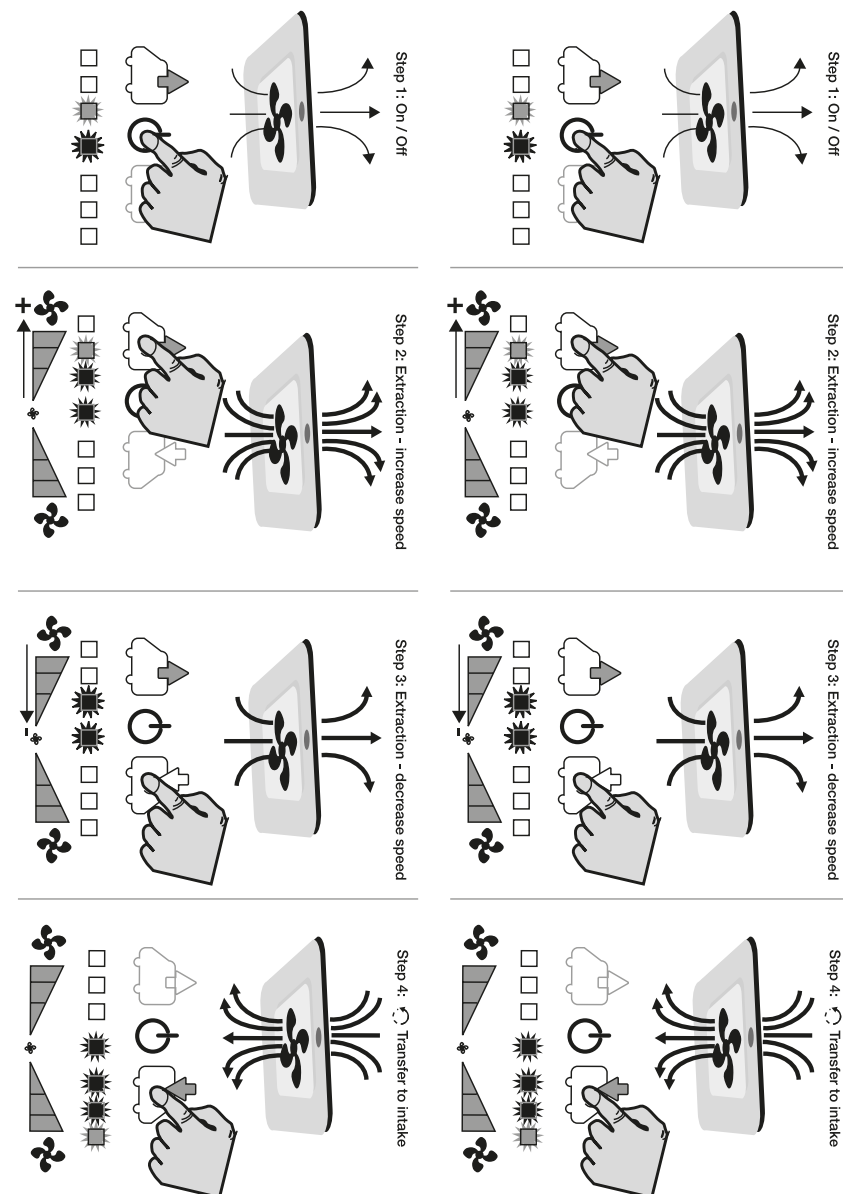
The Swift Group does not allow the fitment of rear mounted cycle racks to any models within the Elegance and Continental ranges.

Caravan motor movers

The design and fitment of a caravan motor mover shall be in accordance with the NCC Code of Practice 305 and you should ensure you receive a signed installation certificate of compliance from the installer.

Failure to do so may invalidate your warranty

Omni-vent



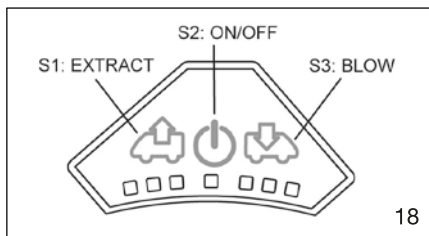
OMNIVENT

Use rooflight

- Close the lid before driving
- To take away the roller blind, unscrew and click the frame off the side of the knob.

Use of the ventilation

- The ventilator is started by the soft switch S2. The middle LED light lights up and the ventilator starts in comfort mode, this is the lowest speed (extract). See fig 18.



18

- By pushing on the switch S1 (extract) or S3 (intake), the airflow can be adjusted in 6 steps. See table 19.

PUSH BUTTONS	LIGHTS	SPEED	Ampère	Watt
1x (S1)	■ ■ ■ ■ ■	0	0,2 mA	2,4 mW
1x (S1) + 1x (S2)	■ ■ ■ ■ ■	1Q	0,17 A	2 W
1x (S1) + 2x (S2)	■ ■ ■ ■ ■	2Q	0,40 A	5 W
1x (S1) + 3x (S2)	■ ■ ■ ■ ■	3Q	0,90 A	11 W
1x (S1) + 4x (S2)	■ ■ ■ ■ ■	4Q	1,55 A	20 W
1x (S1) + 5x (S2)	■ ■ ■ ■ ■	5Q	3,20 A	40 W
1x (S1) + 5x (S2) + 1x (S3)	■ ■ ■ ■ ■	6Q	7,20 A	86 W
1x (S1) + 5x (S2) + 2x (S3)	■ ■ ■ ■ ■	4Q		
*** ***				
1x (S1) ***	■ ■ ■ ■ ■	0	0,2 mA	2,4 mW

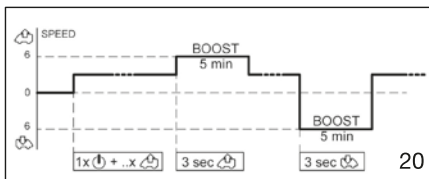
PUSH BUTTONS	LIGHTS	SPEED	Ampère	Watt
1x (S1)	■ ■ ■ ■ ■	0	0,2 mA	2,4 mW
1x (S1) + 1x (S2)	■ ■ ■ ■ ■	1Q	0,17 A	2 W
1x (S1) + 2x (S2)	■ ■ ■ ■ ■	0	15 mA	0,2 W
1x (S1) + 3x (S2)	■ ■ ■ ■ ■	1Q	0,17 A	2 W
1x (S1) + 4x (S2)	■ ■ ■ ■ ■	2Q	0,40 A	5 W
1x (S1) + 5x (S2)	■ ■ ■ ■ ■	3Q	0,90 A	11 W
*** ***				

*MIN = 3,7 m³/min (2 W - 0,17 A)

*MAX = 24 m³/min (86 W - 7,20 A)

- In order to save the battery, the speed drops from position 6 to the lowest position after one hour of use.
- It is possible to allow the ventilator to work for 5 minutes on the highest speed (boost). To do this push for 3 seconds on the button

S1 (extraction) or S2 (intake). After 5 minutes the ventilator returns to its previous speed setting. See table in fig 20.



- For reasons of security, the ventilator, the ventilator stops when the tension is too high (19,5 V) or too low (11,1 V) or when the fan is blocked. For trouble shooting see fig 21.

FLASHING LED's	PROBLEM
■ ■ ■ ■ ■	or Tension < 11,1 V or Tension > 19,5V
■ ■ ■ ■ ■	Motor blocked
■ ■ ■ ■ ■	Motor not connected

Maintenance

The ventilator grid can be removed for cleaning. Also the mosquito screen can be taken out for cleaning.

Remark on the transport of the caravan with Omni-vent

The roof light is only waterproof in the direction of the traffic. When transporting the caravan in the opposite direction, or when the back of the caravan is up, ensure the dome is watertight by using the 'Lock-unlock' (not supplied on a ventilator version) or by using something that ensures that the dome remains closed when being transported.

REAR VISION CAMERA

Tourer Rear Vision System

When fitted, a rear vision camera will be present close to the high level brake light at the rear of the caravan, connected to a wireless transmitter housed above the number plate recess.



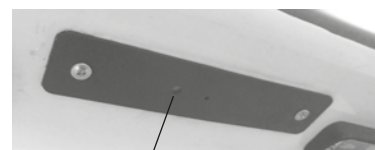
Fig. 1 Rear camera pod



Power button

Pair button

Fig. 2 Rear vision screen



Pair button

Fig. 3 Rear view transmitter

Supplied separately, a screen with power supply leads, and a windscreen mount, is to be used in the towing vehicle to receive pictures from the transmitter. The screen has an internal re-chargeable battery, allowing short term use without a power supply lead. For longer journeys, or to re-charge the internal battery, please use the power leads provided.

The camera and transmitter will be operational when the towing vehicle is connected (via the 13-pin towing lead), and the tow vehicle engine is running. When the screen is then turned on, via an extended press of the power button on the top of the unit, images from the camera / transmitter will automatically be displayed. Press and hold the power button again to switch the screen off.

If an image is not displayed, please check the following:

- The screen has two input channels. While the screen is ON, short presses of the power button will alternate the display between these channels. Check the alternate channel for an image.
- The transmitter and receiver need to be paired, to communicate with each other. This should have been done by the supplying dealer, but if the settings have been lost please repeat the procedure described below.

Pairing the transmitter and screen

- Ensure that the screen has sufficient charge for use without a power lead.
- Connect the tow vehicle and start the engine. Ensure you have an assistant with you who can stay in the car while the engine is running, for both safety and security reasons.
- On the screen, find the recessed pairing button as shown in the image on this page. (Fig. 2)
- At the rear of the caravan, locate the rectangular plate housed between the number plate lights, and find the pairing button as shown in the image on this page. (Fig. 3)
- Turn the screen on. Using a small diameter item such as a paper clip, press the pair button on the screen unit. A message 'PAIRING START' or similar will be displayed. (Fig. 2)

DOOR OPERATION

- Using a small screwdriver, press the pairing button on the rectangular plate between the number plate lights. **(Fig. 3)**
- Once pairing is complete, an image will be displayed on the screen.

Sliding door operation

When fitted, to operate the lock turn the rotating handle clock-wise to un-lock and slide the door open. Care must be taken to ensure it is closed and the lock is fully engaged for transit.

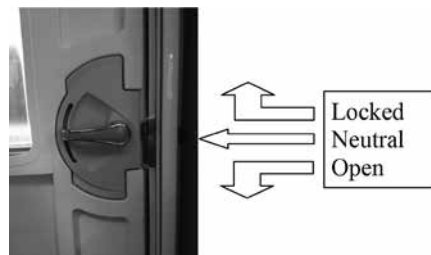


Shower door operation

The Bi-Fold shower door is tracked to improve its operation (Figure a), the transit catch is located above the door and care must be taken to ensure that this is in the locked position (Figure a) for towing.

Gas locker door operation

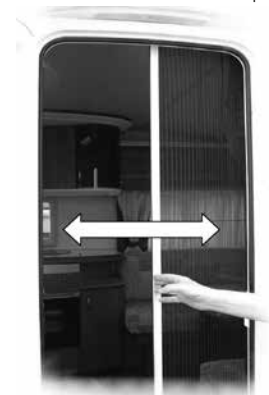
Your vehicle is fitted with a single lever three point locking mechanism. To operate, firstly unlock the door with the key turning through 180 degrees anti-clockwise. Once unlocked, use the recess to the right of the handle (Figure a) to pull open the handle ensuring it is fully extended (Figure b). Then fully rotate the handle anti-clockwise (Figure C) before you open the door. To close and lock the door reverse the steps c to a.



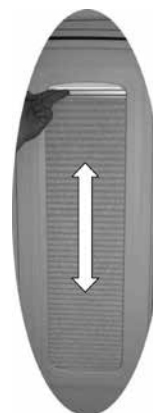
Exterior Door Operating Instructions

To un-lock the door, insert the key and turn clockwise ensuring the key is removed before the door is opened to prevent damage to the caravan side.

The door flyscreen is tracked top and bottom and operation must be by the centre of the handle to aid a smooth operation.



The door blind slides vertically within the door cassette.



SERVICE DOOR OPERATION

Service door operating instructions

To open the door put the key in the lock fig 1.



Turn in an anti-clockwise direction until the locking handle is released fig 2.



Remove the key and turn the handle in a clockwise direction fig 3.



open the door until the sprung stay engages fig 4 (Not fitted to the toilet door).



To close the door push the spring stay in to fold away (when fitted) and close the door applying pressure to the hatch until you hear the locks click in to place fig 5.



Insert the key fig 6.



Turn anti-clockwise fig 7.



Then remove the key fig 8 and lock by turning the handle anti-clockwise and pushing back in to place. Note the handle will not push back in to place until all the locks are closed figure 5.

